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Ontario Road Safety Annual Report





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Ministry
of
Transportation

'92

**ontario
road safety
annual
report**



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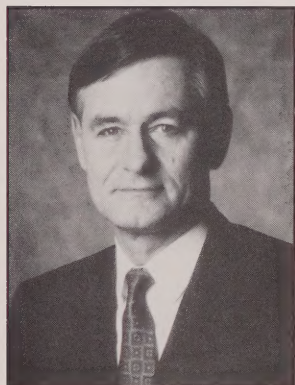
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The cover features a picture of Mr. Chester Orlowski who has been responsible for collision statistics and the production of this publication for many years. This is the last edition for which Mr. Orlowski is responsible as he has taken a well deserved retirement after 34 years of service at this Ministry. Also pictured is his son, Mr. Ken Orlowski, who currently works for this Ministry.

minister's message



When we compile statistics into an annual report like this the reality of Ontario's traffic environment becomes crystal clear: we have to improve the road safety problem in Ontario. Every year 1,100 deaths and 90,000 injuries occur as a result of more than 200,000 vehicle collisions on our highways. These staggering statistics represent the human cost

of collisions. But there is more. The social cost of crashes in Ontario adds up to more than \$9 billion every year. This figure includes the direct costs associated with property damage, emergency services, health care, and wage loss as well as the indirect costs associated with pain and suffering.

The Ontario government has made road safety a top priority and has developed an Ontario Road Safety Agenda to make its roads the safest in North America.

By improving safety features on our roads—better lighting, simpler signs, constructing passing lanes—we can

prevent some collisions. In fact, the province has committed \$97 million this year to install median barriers and guard rails on our highways.

But the core of the problem is not the road or the vehicles travelling on them. Eighty-five per cent of the collisions on our highways are the result of bad driving: drinking and driving ... driving too fast ... tailgating ... careless driving or just not paying attention.

That is why we promote seat belt use and discourage aggressive driving. That is why our Road Safety Agenda has introduced graduated licensing for new drivers beginning in June 1994. That is why we support R.I.D.E. programs. That is why we are testing photo radar to reduce speeding on our highways. And that is why we are examining and testing ways to teach drivers about safe following distances.

As each new road safety initiative is implemented, we move closer to reaching our goal. To succeed we must convince each and every road user to make road safety their priority. We must each recognize ourselves as "the other driver" and improve our driving behaviour. Only then will we see the statistics change and the tragedies end.

**Gilles Pouliot,
Minister of Transportation**

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1

overview



1a. synopsis

In 1992, approximately 5.8% of the drivers and 6.7% of vehicles in the province were involved in accidents.

There were 1,090 people fatally injured in motor vehicle accidents, while 91,025 people suffered some degree of personal injury. The fatally injured comprised 548 drivers (not including motorcycle drivers), 316 were passengers, 140 pedestrians, 47 motorcycle drivers, and 6 motorcycle passengers. Other classes of road users accounted for 33 deaths.

In total, there were 224,249 accidents involving 417,419 vehicles. Of all accidents, 942 resulted in one or more people being killed, while in 58,889 accidents at least one person was injured.

In terms of alcohol involvement, tests for the presence of alcohol among drivers who were killed showed that 183 (33.6%) were legally impaired and 39 (7.1%) had consumed alcohol but were not found to be legally impaired.

People in the 16 - 20 year age group continue to be over-represented in accidents, and particularly in fatalities. In 1992, 71 motor vehicle and motorcycle drivers in this age group were killed and 6,583 were injured.

Selected Statistics

Total Reportable Accidents	224,249
Total Drivers Involved in Accidents	398,068
Total Vehicles Involved in Accidents	417,419
Fatal Accidents	942
Personal Injury Accidents	58,889
Property Damage Accidents	164,418
Persons Killed	1,090
Drivers Killed	623
Drivers Killed (Impaired or Had Been Drinking)	222
Passengers Killed	317
Pedestrians Killed	140
Other Road Users Killed	10
Persons Injured	91,025
Estimated Ontario Population (1991)	9,624,700
Licensed Drivers	6,688,761
Registered Motor Vehicles	6,270,389
Estimated Vehicle Kilometres Travelled (in millions)	73,304
Number of Persons Killed in Motor Vehicle Accidents per 100,000 People in Ontario	11.3
Number of Persons Killed in Motor Vehicle Accidents per 100 Million Kilometres Travelled	1.5
Accident Rate per 100 Million Kilometres Travelled	305.9
Fatal Accident Rate per 100 Million Kilometres Travelled	1.3

1b. selected characteristics of motor vehicle accidents in 1992

Note: On January 1, 1988 a new Motor Vehicle Accident Report Form was introduced. These data include the changes which were made on the form used by police forces in Ontario, and which forms the basis for the accident statistics compiled by the Province of Ontario. This has resulted in changes in the way in which the data are compiled. As a result, some of the information may not be directly comparable to data prior to 1988.

Persons Killed and Injured

In 1992, the number of people killed, 1,090 decreased from the previous year. This represents a decrease in the number of people killed of approximately 15% since 1989. The number of injuries is still 25% below 1989 levels; however, the number of people injured increased to 91,025 in 1992 from 90,519 in 1991. However encouraging general trends may be, the magnitude of the problem as defined by numbers of people killed or injured, or cost to society is a significant problem which requires our utmost attention.

Road Users Age

Young drivers continue to be over-represented in motor vehicle accidents relative to their share of the licensed driver population. While drivers aged 16 to 24 made up 14% of the driver population, they comprise 22% of drivers involved in accidents. Approximately 1 in 8 drivers aged 16 and 17 were involved in a collision in 1992.

Of the 0 to 4 year old children killed or seriously injured in a motor vehicle, 39% were wearing a lap/lap & shoulder belt, 24% were not using any restraint system, and 5% were incorrectly using a child restraint.

It is important to remember these small road users are at risk and need to be taught safety consciousness, and the use of safety equipment including restraints in vehicles, bicycle helmets and traffic awareness.

Driver Action

Drivers who were driving properly at the time of their collision continue to average around 45%. Failure to yield the right of way, speed, loss of control and following too closely continue to be the most frequently reported driver errors in all collisions. Excessive speed continues to be the leading driver action, cited in 18% of fatal collisions. Speeding is also a driver action cited for approximately one quarter of motorized snow vehicles and all terrain vehicle drivers in collisions.

Alcohol Involvement

Alcohol involvement continued to be the leading non-normal driver condition reported in fatal collisions. The incidence of alcohol use in drivers killed is approximately 40%. While this figure is well below the almost 60% experienced in the early 1980's, it is disconcerting to see that alcohol use has increased at all.

Alcohol is also a significant problem in off road vehicle collisions. Alcohol was a factor in over 16% of all motorized snow vehicle drivers and 17% of all terrain vehicle drivers in collisions. Care needs to be exercised in the use of alcohol and motorized vehicles at all times.

1c.

the health
perspective

Hospital Emergency Departments receive most people injured in motor vehicle accidents. The majority of these have sustained minimal or minor injuries and are therefore released without being admitted to hospital for in-patient care. However, people suffering major and severe injuries are admitted as in-patients. Detailed statistics are captured for in-patients and described below.

Between April 1, 1991 and March 31, 1992, there were 10,341 acute (short term) hospital admissions related to motor vehicle accidents.

The 10,341 acute hospital admissions resulted in 145,980 hospital days of stay during the fiscal year 1991-92, making the average stay per admission 14.1 hospital days.

Selected Diagnoses of Motor Vehicle Accident Injuries Hospitalized in Ontario, 1991/92

Selected Diagnoses	Hospital Admissions	Hospital Days of Stay
Fracture of skull	597	10,544
Fracture of neck and trunk	1,717	26,789
Fracture of upper limb	751	5,269
Fracture of lower limb	1,651	24,715
Dislocation, sprains and strains	433	2,058
Intracranial injury, excluding those with skull fracture	1,905	31,054
Internal injury of chest, abdomen and pelvis	654	6,442
Open wound of head, neck and trunk	346	1,033
Open wound of upper limb	66	363
Open wound of lower limb	116	1,488
Other injuries, burns and traumatic complications	2,105	36,225
Total Admissions and Days	10,341	145,980

According to data provided by the hospitals 4,156 patients underwent surgery in the course of their hospital treatment and 204 patients died in the hospital subsequent to their admission for in-patient care.

Ninety-seven per cent of those hospitalized were Ontario residents, 1% were Quebec residents, and the rest of the patients were residents of other Canadian provinces and the United States.

Selected Surgical Procedures for Motor Vehicle Accident Injuries Hospitalized in Ontario, 1991/92

Selected Procedures	Hospital Admissions	Hospital Days of Stay
Operations on skull, brain and cerebral meninges	167	7,139
Operations on spinal cord and canal structures	58	1,039
Operations on nose, mouth and pharynx	87	406
Operations on chest wall, pleura, mediastinum and diaphragm	125	1,704
Operations on bone marrow and spleen	81	1,191
Operations on kidney	75	844
Operation on facial bones and joints	226	2,079
Reduction of fracture and dislocation	1,853	23,194
Repair and plastic operations on joint structures	153	2,547
Operations on skin and subcutaneous tissue	655	4,259
Other surgical procedures	676	9,638
Sub-total of surgical admissions and days	4,156	54,040
No surgical procedures reported	6,185	91,940
Total Admissions and Days	10,341	145,980

2

the people

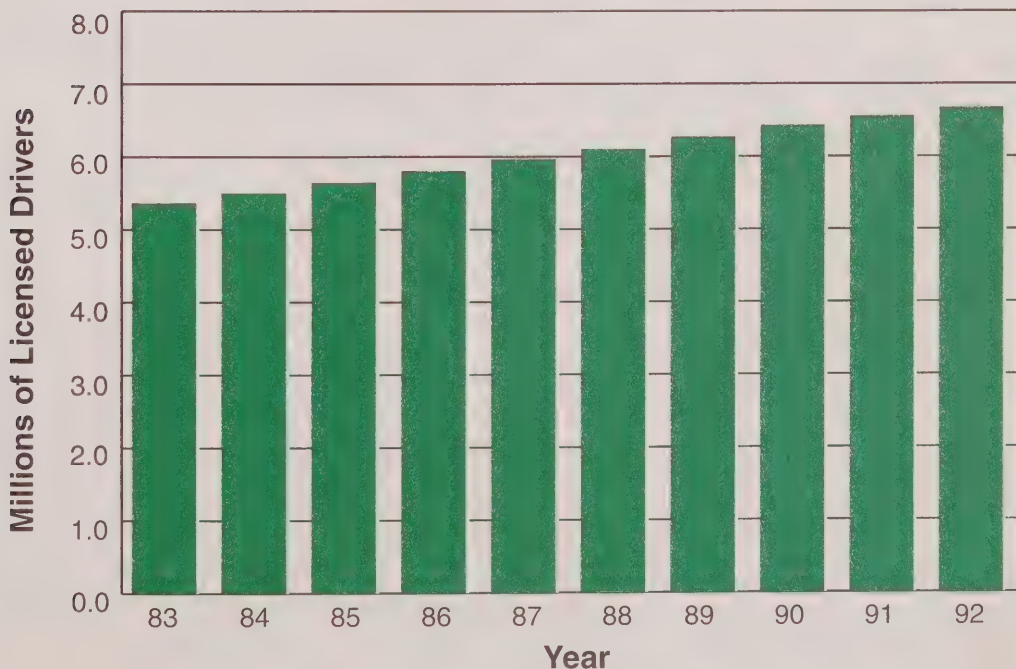
In 1992 there were 6,688,761 drivers licensed in the province of Ontario. Despite this increase in the number of licensed drivers, the number of deaths has decreased once again this year. Deaths decreased to 1,090 or 1%. This marks the third consecutive year in a row where the number of deaths on Ontario roads has decreased. Injuries increased by almost 1% to 91,025.

Young people under 25 years of age, represented 34% of the road users killed on Ontario roads. Drivers of motor vehicles under the age of 25 represented 27% all drivers killed. This same age group represents almost 50% of passengers killed. Approximately 25% of motor vehicle drivers injured and almost 50% of passengers injured were under 25 years of age.

Almost 8% of fatalities and 10% of injuries involved children less than 16 years old. They accounted for 11% of pedestrian fatalities and 26% of pedestrian injuries. Of all cyclist deaths 41% were under age 16. This age group accounted for almost 40% of cyclist injuries.

Alcohol involvement remains the single most significant factor in accident fatalities. For the second year in a row the incidence of alcohol use increased. The number of drivers in fatal accidents whose Blood Alcohol Concentration was in excess of 80 mg% actually increased. This increase is also evident in the number of fatally injured drivers who had been drinking or were legally impaired.

Licensed Drivers in Ontario, 1983-1992



2a. people in accidents

Table 2.1 Category of Involved Person by Severity of Injury in Fatal and Personal Injury Accidents 1992

Category of Involved Person	Severity of Injury					Total
	None	Minimal	Minor	Major	Fatal	
Drivers	52,386	28,013	18,082	3,164	548	102,193
Passenger*	31,998	16,595	11,820	2,074	316	62,803
Pedestrian	129	1,977	2,450	750	140	5,446
Cyclist	55	1,709	1,423	201	27	3,415
Cyclist Passenger	23	81	64	7	-	175
All Terrain Vehicle Driver	11	10	14	13	-	48
All Terrain Vehicle Passenger	8	1	5	3	-	17
Snow Vehicle Driver	14	19	21	17	1	72
Snow Vehicle Passenger	2	7	9	10	1	29
Motorcycle Driver	131	608	860	346	47	1,992
Motorcycle Passenger	54	129	191	72	6	452
Moped Driver	6	15	14	2	-	37
Moped Passenger	5	3	2	-	-	10
Hanger On	34	41	46	22	1	144
Other	1,365	93	34	8	3	1,503
Total	86,221	49,301	35,035	6,689	1,090	178,336

* Includes bus passengers

Fatal	Person killed immediately or within 30 days of the motor vehicle accident.
Major	Person admitted to hospital. Includes person admitted for observation.
Minor	Person went to hospital and was treated in the emergency room but was not admitted.
Minimal	Person did not go to hospital when leaving the scene of the accident. Includes minor abrasions, bruises and complaint of pain.
None	Uninjured person.

Approximately 0.6% of people in injury and fatal collisions were killed, 3.7% suffered a major injury, 19.6 had a minor injury and 27.6 had minimal injuries.

Due to a change in the method of tabulating accident statistics this table excludes individuals involved in property damage only accidents.

Figure 2.1 Persons Killed 1983 - 1992

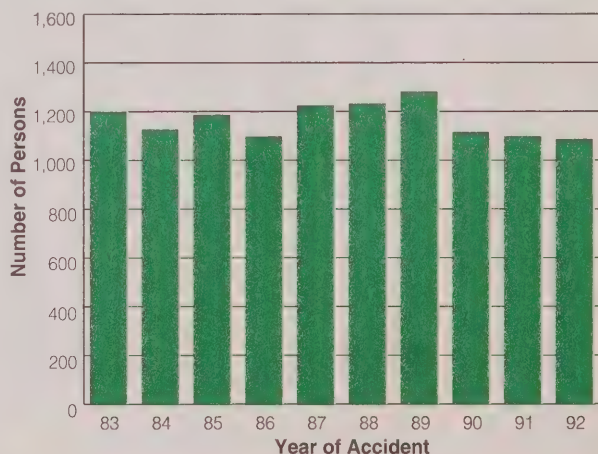


Table 2.2 Category of Persons Killed by Age Groups 1992

Category of Persons	Age Groups																Total
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Driver	-	-	-	7	8	14	18	18	80	143	100	57	34	35	34	-	548
Passenger*	21	19	16	12	17	13	13	12	31	42	41	21	16	20	22	1	317
Pedestrian	4	6	6	4	-	1	3	1	7	12	8	16	21	16	35	-	140
Cyclist	1	4	6	-	-	1	1	-	4	2	2	3	2	-	-	1	27
Cyclist Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATV Driver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATV Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Snow Vehicle Driver	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Snow Vehicle Passenger	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Motorcycle Driver	-	-	1	-	1	2	1	2	12	18	7	1	2	-	-	-	47
Motorcycle Passenger	-	-	2	-	-	-	1	-	3	-	-	-	-	-	-	-	6
Moped Driver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Moped Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	3
Total	26	29	31	23	26	31	37	33	139	218	158	98	77	71	91	2	1,090

* Includes one hanger on

Persons in the 16 to 24 year age group continue to be over-represented in fatalities, comprising 289 (26.5%) of those killed. While drivers in this age group only comprise 14.0% of all licensed drivers, their deaths (163) represent 27.3% all driver fatalities.

Children under the age of 16 represent approximately 40% of cyclist deaths and injuries.

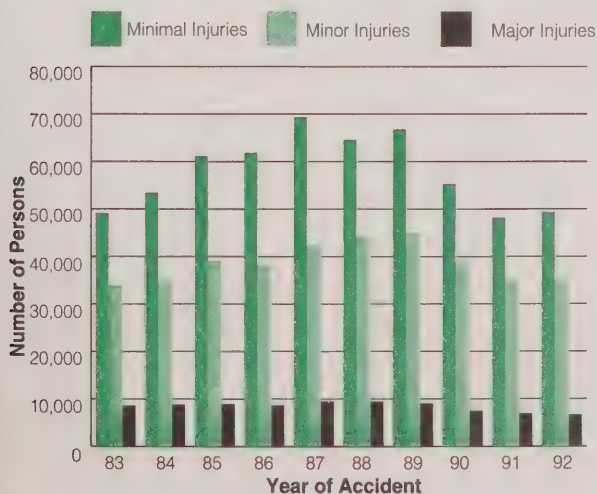
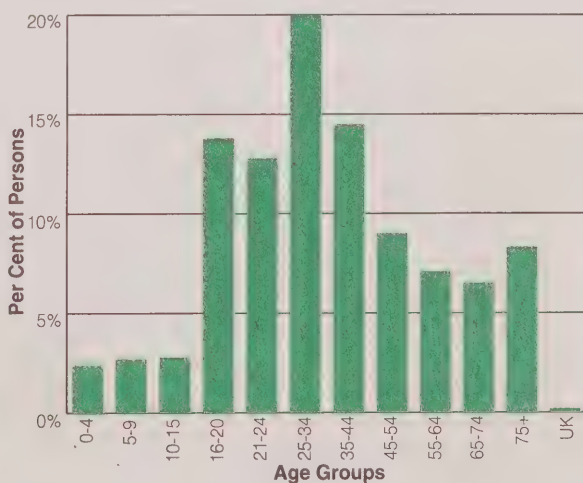
Figure 2.2 Persons Injured and Severity of Injuries 1983 - 1992**Figure 2.3** Per Cent of Total Persons Killed by Age 1992

Table 2.3 Category of Persons Injured by Age Groups 1992

Category of Persons	Age Groups																Total
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Driver	17	1	70	776	1,149	1,313	1,463	1,433	5,646	14,268	10,272	6,081	3,632	2,157	923	58	49,259
Passenger*	1,519	2,055	2,884	1,089	1,131	1,121	1,065	1,033	3,269	5,672	3,244	2,204	1,769	1,367	744	401	30,567
Pedestrian	163	522	681	121	128	115	109	100	399	859	564	379	353	327	278	79	5,177
Cyclist	168	328	799	128	120	94	92	113	391	617	215	105	52	36	17	58	3,333
Cyclist Passenger	4	13	54	5	4	-	6	4	22	34	10	2	3	3	-	4	168
ATV Driver	-	3	9	3	2	1	1	2	5	6	1	1	3	-	-	-	37
ATV Passenger	1	1	5	-	-	-	-	1	-	1	-	-	1	-	-	-	10
Snow Vehicle Driver	-	-	12	4	4	1	3	2	5	20	4	1	1	-	-	-	57
Snow Vehicle Passenger	2	1	8	1	3	1	1	-	4	4	1	-	-	-	-	-	26
Motorcycle Driver	-	1	17	57	69	100	97	126	416	521	289	89	21	7	2	2	1,814
Motorcycle Passenger	-	7	20	20	27	25	29	23	75	97	50	18	5	1	-	7	404
Moped Driver	-	-	3	1	-	2	2	-	4	4	4	6	3	1	1	-	31
Moped Passenger	-	-	1	-	1	-	1	1	-	1	-	-	-	-	-	-	5
Other	-	3	3	1	2	3	2	3	10	14	14	17	10	5	2	48	137
Total	1,874	2,935	4,566	2,206	2,640	2,776	2,871	2,841	10,246	22,118	14,668	8,903	5,853	3,904	1,967	657	91,025

* Includes 109 hangers on

The number of people injured in HTA reportable accidents increased in 1992. This increase represents approximately 1% more people being injured.

Approximately 56% of injured people were drivers. Thirty-four per cent were passengers and 6% were pedestrians. The remaining were divided among driver and passengers of other types of vehicles.

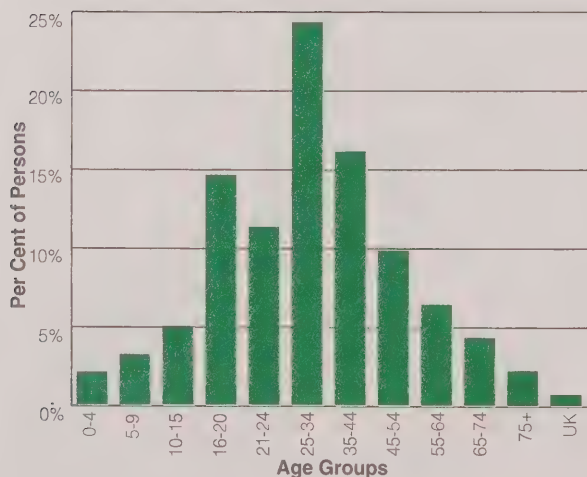
Figure 2.4 Per Cent of Total Persons Injured by Age 1992

Table 2.4 Sex of Driver by
Class of Accident 1992

Sex of Driver	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
Male	1,247	70,705	189,947	261,899
Female	324	34,627	81,721	116,672
Unknown	13	2,936	16,548	19,497
Total	1,584	108,268	288,216	398,068

While male drivers comprise 54% of the driver population, they account for 66% of the drivers involved in motor vehicle accidents. Male drivers were involved in 79% of the fatal accidents, 65% of personal injury accidents and 66% of property damage accidents.

Table 2.5 Driver Condition by
Class of Accident 1992

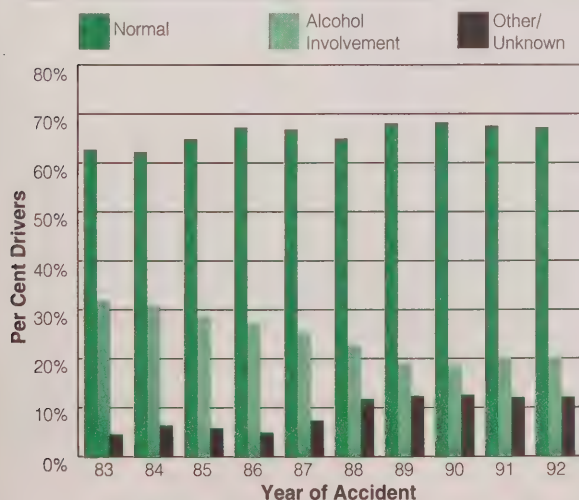
Condition of Driver	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
Normal	1,068	88,981	235,516	325,565
Had Been Drinking	95	3,290	4,627	8,012
Ability Impaired -				
Alcohol over .08	196	2,010	2,870	5,076
Ability Impaired Alcohol	34	829	957	1,820
Ability Impaired Drugs	6	68	116	190
Fatigue	22	581	791	1,394
Medical Physical Defect	9	446	438	893
Inattentive	37	5,260	11,880	17,177
Other	4	225	445	674
Unknown	113	6,578	30,576	37,267
Total	1,584	108,268	288,216	398,068

Had Been Drinking Driver had consumed alcohol but his/her physical condition was not legally impaired.

Ability Impaired Alcohol over .08 Driver had consumed alcohol and upon testing was found to have a blood alcohol level in excess of 80 mg%.

Ability Impaired Alcohol Driver had consumed sufficient alcohol to warrant being charged with a drinking and driving offence.

Inattentive Driver was operating a motor vehicle without due care and attention or placing less than full concentration on driving, e.g., changing radio stations, consuming food, reading, talking on phone or two-way radio, using head-phones.

Figure 2.5 Per Cent Driver Condition in
Fatal Accidents
1983 - 1992

Approximately 14,000 drivers had been drinking prior to being involved in the accident. Alcohol consumption was involved in 3.7% of all drivers in accidents. In property damage accidents, 2.9% of drivers were alcohol involved. This increased to 5.7% of personal injury accidents and 20.5% of accidents involving fatalities.

Table 2.6 Driver Age by Driver Condition
In all Accidents 1992 *

Driver Age	Driver Condition						Total
	Normal	Had Been Drinking	Impaired over .08	Ability Impaired	Other	Unknown	
Under 16	1,394	15	2	1	270	131	1,813
16	5,211	73	11	3	495	290	6,083
17	8,065	133	49	35	671	399	9,352
18	8,657	225	65	31	665	466	10,109
19	8,510	347	123	37	620	502	10,139
20	8,595	341	126	42	633	507	10,244
21-24	36,027	1,382	672	178	2,294	2,064	42,617
25-34	93,972	2,757	1,910	732	5,250	5,198	109,819
35-44	68,590	1,465	1,180	418	3,439	3,409	78,501
45-54	41,185	618	551	202	2,237	1,975	46,768
55-64	24,383	302	252	76	1,434	1,092	27,539
65-74	14,042	143	107	24	1,196	633	16,145
75 & over	5,793	46	12	4	789	316	6,960
Unknown	1,141	165	16	37	335	20,285	21,979
Total	325,565	8,012	5,076	1,820	20,328	37,267	398,068

* Includes bicyclists, drivers of all-terrain vehicles, etc.

Table 2.7 Recorded Occurrence of Alcohol
In Drivers Killed 1992*

Recorded Occurrence	Drivers Number	Drivers %
Apparently Normal	323	59.3
Had Been Drinking	39	7.1
Alcohol over .08	165	30.3
Ability Impaired Alcohol	18	3.3
Total	545	100.0

* Excludes cases where alcohol usage was unknown and cases where driver condition was other than normal or alcohol involved.

Alcohol was involved in 40.7 % of the 545 drivers killed in 1992 for whom alcohol use was recorded. Of those drivers who had been drinking, 7.1% had a Blood Alcohol Concentration of less than the legal limit of 80 mg%. Thirty per cent had a BAC in excess of 80 mg% and a further 3.3% had their ability impaired due to alcohol.

Figure 2.6 Per Cent Driver Condition in
Personal Injury Accidents
1983 - 1992

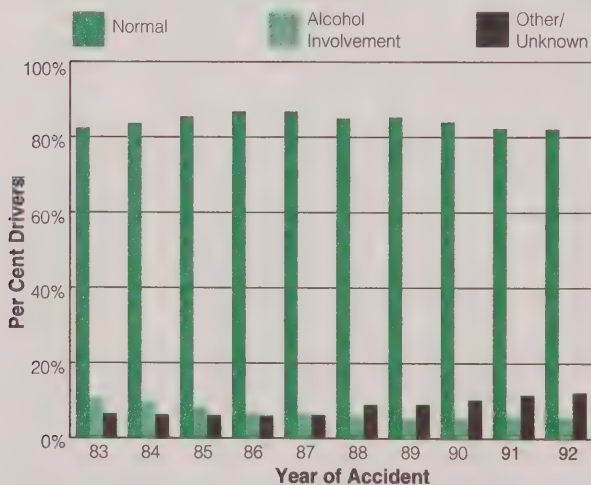
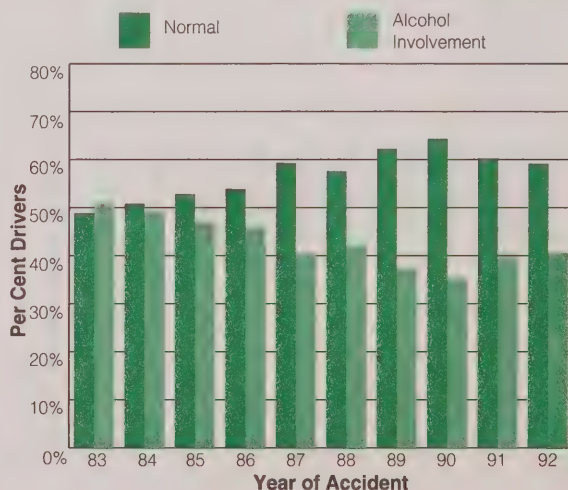


Figure 2.7 Per Cent Recorded Alcohol
Occurrence in Drivers Killed
1983 - 1992



*Includes actions defined as careless driving, inattentive driving, fell asleep, hit and run, wrong side of road, improper parking, impaired, illegally parked, dangerous driving, inexperience, etc.

** This table only refers to drivers for whom the driver condition was other than normal and is thus a percentage of a percentage of all drivers in collisions.

Table 2.8 Apparent Driver Action by Class of Accident 1992

Apparent Driver Action	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
Driving Properly	647	50,228	128,794	179,669
Following Too Close	7	7,582	19,839	27,428
Speed Too Fast	137	1,704	2,335	4,176
Speed Too Fast for Conditions	149	7,437	19,890	27,476
Speed Too Slow	2	82	233	317
Improper Turn	21	3,802	13,192	17,015
Disobey Traffic Control	78	5,254	7,898	13,230
Fail to Yield				
Right of Way	87	10,800	28,827	39,714
Improper Passing	22	919	3,696	4,637
Lost Control	166	8,332	21,144	29,642
Wrong Way on				
One Way Road	4	135	281	420
Improper Lane Change	20	1,793	10,272	12,085
Other*	174	7,366	17,863	25,403
Unknown	70	2,834	13,952	16,856
Total	1,584	108,268	288,216	398,068

Figure 2.8

Apparent Driver Action other than Normal In Fatal Accidents**

1992

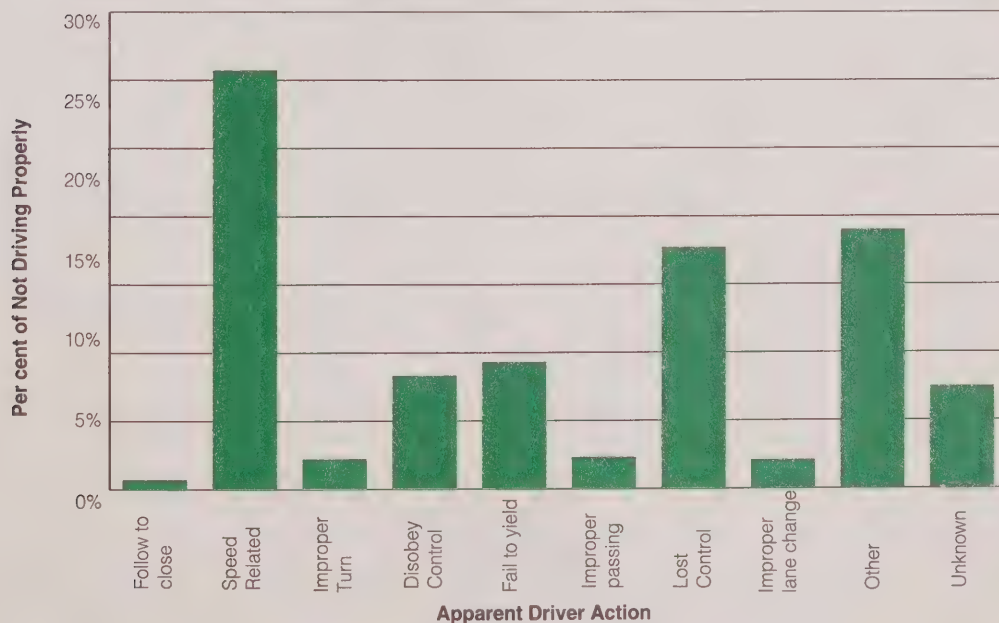


Table 2.9 Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Accidents 1992

Safety Equipment Used	Severity of Injury					Total
	Killed	Major	Minor	Minimal	Not Injured	
Seat Belt Used	264	2,158	15,312	25,771	44,760	88,265
Other Equipment*	3	17	95	89	44	248
Equipment Not Used	227	634	1,596	1,073	799	4,329
No Safety Equipment	1	9	61	61	93	225
Use Unknown	53	346	1,018	1,019	6,690	9,126
Total	548	3,164	18,082	28,013	52,386	102,193

* Other equipment includes helmets, including construction, motorcycle helmets, etc. worn in a motor vehicle. It also includes the use of airbags. Seat belt usage in conjunction with airbag deployment is unknown.

The tables above and below only include seat belt usage in accidents in which there were personal injuries or fatalities. Property damage only accidents are excluded. ORSARs published prior to 1988, Tables 2.9 and 2.10 included seat belt usage in all accidents.

Commentary for Tables 2.10, 2.11 and 2.12

A large number of young children are transported in child safety seats; therefore more will be killed or injured in these restraint systems. This does not mean that child safety seats are not effective. Some collisions are not survivable. Used correctly, child restraints are the simplest and one of the most effective means of protecting children in an accident.

It is also known from observational surveys that many child safety seats are not used correctly. This is not clear in these tables since children are often removed from the child safety seats before the police officer arrives on the scene. Both correct installation of the seats according to the manufacturer's instructions and correct use of the device in the vehicle are important for the child's protection. In 1992, 21 children under age 5 were killed in motor vehicle accidents. Eight of these children were correctly using a child restraint, four were using a child restraint incorrectly and four were using adult type seat belts. Two children were not using a restraint system, although available, and in three fatalities, there were no belts available.

Table 2.10 Seat Belt Usage by Severity of Passenger Injury in Fatal and Personal Injury Accidents 1992

Safety Equipment Used	Severity of Injury					Total
	Killed	Major	Minor	Minimal	Not Injured	
Seat Belt Used	139	1,257	8,848	13,824	23,659	47,727
Child Safety Seat Used Incorrectly	4	2	17	20	49	92
Child Safety Seat Used Correctly	8	26	180	410	1,779	2,403
Other Equipment*	-	5	12	21	31	69
Equipment Not Used	133	543	1,688	1,154	945	4,463
No Safety Equipment	9	86	414	532	1,199	2,240
Use Unknown	23	155	661	634	4,336	5,809
Total	316	2,074	11,820	16,595	31,998	62,803

Table 2.11 Restraint Use for Children (0 - 4 Years) Killed in Accidents 1988-1992

Year	Child Restraint Used Correctly	Child Restraint Used Incorrectly	Lap/Lap & Shoulder Belt	Restraint Not Available	Available Not Used	Use Unknown	Total
1988	2	-	8	1	-	1	12
1989	6	2	3	2	-	5	18
1990	5	1	7	-	3	4	20
1991	2	1	5	1	3	1	13
1992	8	4	4	3	2	-	21

Note: Commentary for Tables 2.11 and 2.12 is on pg. 12.

**Table 2.12 Restraint Use for Children (0 - 4 Years)
Involved in Fatal and Personal Injury Accidents by Severity of Injury 1992**

Restraint Used	Injury Level		
	Major / Fatal %	Minimal/Minor %	No Injuries %
Child Restraint Used Correctly	27.7	36.9	47.3
Child Restraint Used Incorrectly	5.4	2.4	1.2
Lap /Lap-Shoulder Belt	39.3	46.4	43.8
Not Available	8.9	3.5	2.4
Available/Not Used	15.2	6.9	1.8
Other	0	.35	.14
Unknown	3.6	3.6	3.4
Total	100.0	100.0	100.0

**Table 2.13 Pedestrian Condition by
Severity of Injury 1992**

Condition of Pedestrian	Killed	Injured
Normal	70	3,312
Had Been Drinking	9	325
Ability Impaired Alcohol over .08	17	21
Ability Impaired Alcohol	6	128
Ability Impaired Drugs	-	9
Fatigue	-	3
Medical or Physical Defect	8	108
Inattentive	13	690
Other	2	95
Unknown	15	486
Total	140	5,177

In 1992, 140 pedestrians were killed and 5,177 were injured. The most common pedestrian condition was normal in the case of fatalities and injuries. A condition of normal was the most common in fatal and injury accidents. Of non-normal conditions inattentive was the most common in injury accidents (13%) and alcohol use was the most common (23%) in fatal accidents.

**Table 2.14 Apparent Pedestrian Action
by Severity of Injury 1992**

Apparent Pedestrian Action	Killed	Injured
Crossing Intersection With Right of Way	9	1,265
Crossing Intersection Without Right of Way	27	841
Crossing Intersection No Traffic Control	25	470
Crossing Pedestrian Crossover	2	154
Crossing Marked Crosswalk without Right of Way	6	121
Walking on Roadway With Traffic	14	168
Walking on Roadway Against Traffic	2	86
On Sidewalk or Shoulder	15	379
Playing or Working on Highway	1	97
Coming from Behind Parked Vehicle or Object	2	215
Running onto Roadway	12	686
Getting On/Off School Bus	1	7
Getting On/Off Vehicle	2	73
Pushing/Working on Vehicle	3	43
Other	19	572
Unknown	-	-
Total	140	5,177

2b.

putting
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 people
 in
 context

Table 2.15
 Category of Persons Killed and Injured 1983-1992

Year	Ontario Population (Est.)	Category of Persons											
		Driver		Passenger*		Pedestrian		All Others		Persons Killed In All Classes		Persons Injured In All Classes	
										Rate Per		Rate Per	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Number	100,000	Number	100,000
1983	8,816,000	528	45,440	302	30,283	204	5,618	170	10,365	1,204	13.7	91,706	1,040.2
1984	9,024,000	460	48,674	282	31,865	189	5,767	201	10,924	1,132	12.5	97,230	1,077.5
1985	9,066,000	502	55,859	333	35,717	182	6,099	174	11,494	1,191	13.1	109,169	1,204.2
1986	9,181,900	511	57,233	289	34,915	153	5,781	149	10,910	1,102	12.0	108,839	1,185.4
1987	9,270,700	545	64,588	318	39,596	187	5,939	179	10,966	1,229	13.3	121,089	1,306.2
1988	9,439,600	563	63,339	350	39,157	186	6,344	138	9,318	1,237	13.1	118,158	1,251.7
1989	9,598,600	627	66,334	369	39,950	161	6,187	129	8,181	1,286	13.4	120,652	1,257.0
1990	9,743,300	540	55,073	321	33,606	154	5,839	105	7,057	1,120	11.5	101,575	1,042.5
1991	10,084,900	542	48,021	298	30,230	157	5,352	105	6,916	1,102	10.9	90,519	897.6
1992	10,098,600	548	49,259	317	30,567	140	5,177	85	6,022	1,090	10.8	91,025	901.4

The number of people killed in motor vehicle collisions (1,090) is the lowest since 1954. The number of injuries has increased to 91,025. The rate per 100,00 people killed fell in 1992 but the injury rate per 100,000 people injured increased.

Almost 50% of the people killed were drivers. A further 29% were passengers and 13% were pedestrians.

Table 2.16
 Sex of Driver Population by Age Groups 1992

Sex of Driver	Age Groups							Total
	16-19	20-24	25-34	35-44	45-54	55-64	65+	
Male	171,436	337,415	889,650	803,476	588,286	428,732	425,386	3,644,381
Female	143,249	286,292	775,783	725,250	494,597	317,027	302,182	3,044,380
Total	314,685	623,707	1,665,433	1,528,726	1,082,883	745,759	727,568	6,688,761

Table 2.17 **Driver Population Age Groups 1983-1992**

Year	Age Groups							Total
	16-19	20-24	25-34	35-44	45-54	55-64	65+	
1983	320,478	682,033	1,359,350	1,103,403	792,933	650,687	471,375	5,380,259
1984	300,364	689,476	1,396,560	1,155,421	806,207	671,271	494,612	5,513,911
1985	293,908	687,467	1,443,327	1,205,614	820,397	685,640	524,069	5,660,422
1986	295,107	676,283	1,494,658	1,257,724	840,322	697,254	556,451	5,817,799
1987	305,886	662,357	1,544,926	1,306,853	866,022	708,865	583,196	5,978,105
1988	310,764	643,691	1,588,516	1,353,841	898,103	714,266	608,931	6,118,112
1989	323,109	631,470	1,634,187	1,409,053	931,991	720,788	639,826	6,290,424
1990	322,542	629,478	1,666,474	1,467,699	964,925	728,380	669,385	6,448,883
1991	319,584	627,931	1,673,502	1,501,765	1,018,365	736,652	696,432	6,574,231
1992	314,685	623,707	1,665,433	1,528,726	1,082,883	745,759	727,568	6,688,761

* Excludes Motorcycle passengers, which are included with "All Others".

Overall the number of licensed drivers continues to increase.
The number of drivers under the age of 25 decreased again in 1992.

Table 2.18 **Driver Licence Class by Sex 1992**

Licence Class	Driver Sex				Total	%
	Male	%	Female	%		
A	76,924	2.11	894	.02	77,818	1.16
AM	27,039	.74	138	.00	27,177	.40
AB	3,853	.10	285	.00	4,138	.06
AC	11,304	.31	189	.00	11,493	.17
ABM	2,009	.05	107	.00	2,116	.03
ACM	5,803	.15	57	.00	5,860	.08
B	17,667	.48	16,731	.54	34,398	.51
BM	4,889	.13	940	.03	5,829	.08
C	7,477	.20	521	.01	7,998	.11
CM	2,167	.05	60	.00	2,227	.03
D	199,301	5.46	9,183	.30	208,484	3.11
DM	46,416	1.27	607	.01	47,023	.70
DE	113	.00	22	.00	135	.00
DF	2,209	.06	83	.00	2,292	.03
DEM	28	.00	1	.00	29	.00
DFM	1,024	.02	15	.00	1,039	.01
E	1,506	.04	2,643	.08	4,149	.06
EM	205	.00	65	.00	270	.00
F	8,633	.23	5,508	.18	14,141	.21
FM	2,303	.06	325	.01	2,628	.03
G	2,880,173	79.03	2,956,754	97.12	5,836,927	87.26
GM	339,827	9.32	48,728	1.60	388,555	5.80
M	3,511	.09	524	.01	4,035	.06
Total	3,644,381	54.48	3,044,380	45.51	6,688,761	100.00

Table 2.19 Licensed Drivers, Total Accidents, Persons Killed and Injured 1931-1992

Year	Licensed	Total	Persons	Persons
	Drivers	Accidents	Killed	Injured
1931	666,266	9,241	571	8,494
1932	648,710	9,171	502	8,231
1933	638,710	8,634	403	7,877
1934	665,743	9,645	512	8,990
1935	707,457	10,648	560	9,839
1936	755,765	11,388	546	10,251
1937	802,765	13,906	766	12,092
1938	866,729	13,715	640	11,683
1939	899,572	13,710	652	11,638
1940	937,551	16,921	716	13,715
1941	986,773	18,167	801	14,275
1942	961,883	13,490	567	10,205
1943	919,457	11,025	549	8,628
1944	905,650	11,004	498	8,373
1945	971,852	13,458	598	9,804
1946	1,087,445	17,356	688	12,228
1947	1,144,291	22,293	734	13,056
1948	1,209,408	27,406	740	14,970
1949	1,278,584	34,472	830	17,469
1950	1,366,388	43,681	791	19,940
1951	1,461,538	54,920	949	22,557
1952	1,556,559	58,515	1,010	23,643
1953	1,656,259	65,866	1,082	24,353
1954	1,747,567	62,509	1,045	24,607
1955	1,856,845	63,219	1,111	26,246
1956	1,967,789	71,399	1,180	28,626
1957	2,088,551	76,302	1,279	30,414
1958	2,176,417	76,884	1,112	30,106
1959	2,270,246	81,518	1,187	31,602
1960	2,355,567	87,186	1,166	34,436
1961	2,414,615	85,577	1,268	37,146
1962	2,469,425	94,231	1,383	41,766
1963	2,555,015	104,919	1,421	47,801
1964	2,694,023	111,232	1,424	54,560
1965	2,739,138	128,462	1,611	60,917
1966	2,821,648	139,781	1,596	65,210
1967	3,004,654	145,008	1,719	67,280
1968	3,128,509	155,127	1,586	71,520
1969	3,247,979	169,395	1,683	74,902
1970	3,422,892	141,609	1,535	75,126
1971	3,563,197	158,831	1,769	84,650
1972	3,688,541	189,494	1,934	95,181
1973	3,841,628	193,021	1,959	97,790
1974	3,972,980	204,271	1,748	98,673
1975	4,160,623	213,689	1,800	97,034
1976	4,315,925	211,865	1,511	83,736
1977	4,562,903	218,567	1,420	95,664
1978	4,725,546	186,363	1,450	94,979

(Cont'd)

Table 2.19 Licensed Drivers, Total Accidents, Persons Killed and Injured Continued

Year	Licensed Drivers	Total Accidents	Persons Killed	Persons Injured
1979	4,858,351	197,196	1,560	101,321
1980	4,993,531	196,501	1,508	101,367
1981	5,123,177	198,372	1,445	100,321
1982	5,247,198	187,943	1,138	92,815
1983	5,380,259	181,999	1,204	91,706
1984	5,513,911	194,782	1,132	97,230
1985	5,660,422	189,750	1,191	109,169
1986	5,817,799	187,286	1,102	108,839
1987	5,978,105	203,431	1,229	121,089
1988	6,118,112	228,398	1,237	118,158
1989	6,290,424	247,038	1,286	120,652
1990	6,448,883	220,188	1,120	101,575
1991	6,574,231	213,669	1,102	90,519
1992	6,688,761	224,249	1,090	91,025

Despite the fact that number of licensed drivers continues to increase, the number of fatalities was the lowest since 1954.

Table 2.20 Original Licences Issued 1988-1992

Year	Original Licences
1988	255,211
1989	279,814
1990	267,894
1991	252,821
1992	227,434

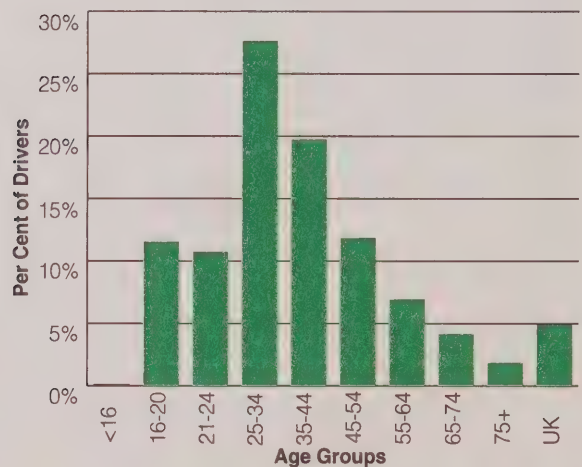
Table 2.21 Temporary Licence Permits Issued for Class L's and Class R's 1988 - 1992

Year	Licence Permits	
	L	R
1988	307,748	31,098
1989	320,921	27,167
1990	301,569	24,828
1991	324,418	27,740
1992	299,064	22,251

Table 2.22 **Driver Age Groups - Number Licensed, Accident Involvement and Per Cent Involved in Accidents 1992**

Drivers Age	Drivers Licensed			Drivers Involved in Accidents *			% of Drivers of Each Age Involved in Accidents		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Under 16	-	-	-	314	123	437	-	-	-
16	18,902	15,503	34,405	3,772	2,138	5,910	20.0	13.8	17.2
17	43,566	36,765	80,331	5,946	3,252	9,198	13.6	8.8	11.5
18	52,195	43,489	95,684	6,547	3,439	9,986	12.5	7.9	10.4
19	56,773	47,492	104,265	6,795	3,230	10,025	12.0	6.8	9.6
20	61,386	51,095	112,481	6,889	3,206	10,095	11.2	6.3	9.0
21-24	276,029	235,197	511,226	28,914	13,141	42,055	10.5	5.6	8.2
25-34	889,650	775,783	1,665,433	75,666	33,028	108,694	8.5	4.3	6.5
35-44	803,476	725,250	1,528,726	51,981	25,850	77,831	6.5	3.6	5.1
45-54	588,286	494,597	1,082,883	32,185	14,185	46,370	5.5	2.9	4.3
55-64	428,732	317,027	745,759	20,057	7,236	27,293	4.7	2.3	3.7
65-74	303,318	224,924	528,242	11,278	4,772	16,050	3.7	2.1	3.0
75 & Over	122,068	77,258	199,326	4,844	2,087	6,931	4.0	2.7	3.5
Unknown	-	-	-	-	-	18,740	-	-	-
Total	3,644,381	3,044,380	6,688,761	255,188	115,687	389,615	7.0	3.8	5.8

* This table excludes drivers of non motor vehicles, i.e. bicyclists, snow vehicle operators, etc.

Figure 2.9 **Per Cent of Licensed Drivers Involved in Accidents by Age 1992**

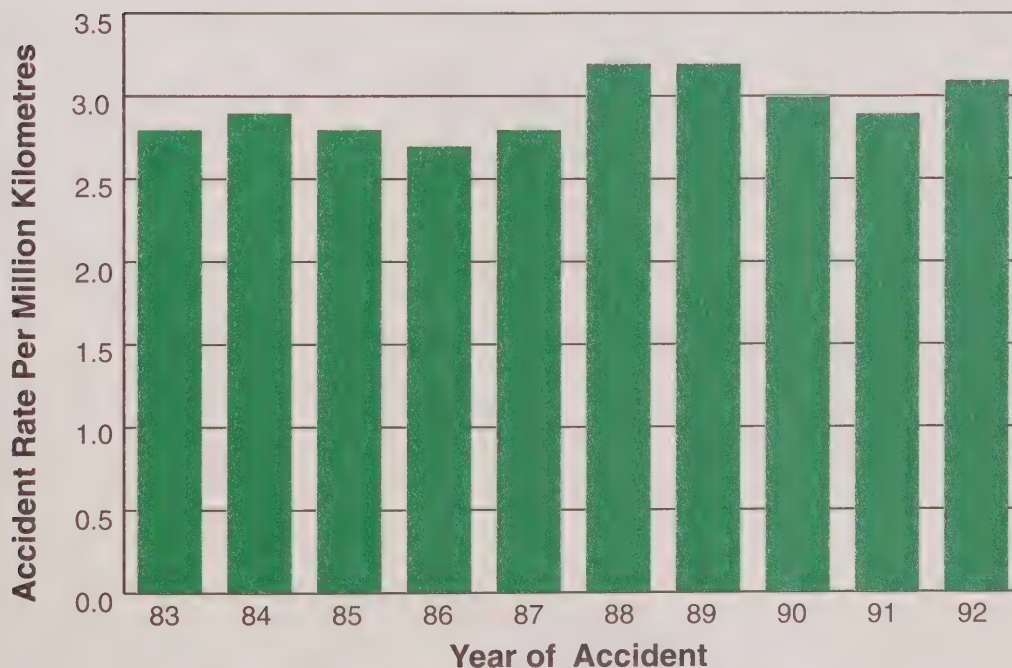
3

the
accident

In 1992 there were 224,249 reportable motor vehicle accidents in Ontario. Of these, 164,418 involved only property damage. There were 58,889 accidents in which there were 91,025 persons injured. There were 1,090 fatalities in 942 fatal accidents.

The estimated kilometres travelled increased slightly to 73,304 million in 1992. The accident rate increased to 3.1 per million kilometres travelled.

Accident Rate Per One Million Kilometres Travelled 1983-1992



3a. types of accidents

Table 3.1 Class of Accident 1983-1992

Year	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
1983	1,042	62,735	118,222	181,999
1984	1,011	66,101	127,670	194,782
1985	1,036	73,840	114,874	189,750
1986	951	73,703	112,632	187,286
1987	1,085	80,432	121,914	203,431
1988	1,076	76,724	150,598	228,398
1989	1,106	77,852	168,080	247,038
1990	959	65,912	153,317	220,188
1991	956	59,242	153,471	213,669
1992	942	58,889	164,418	224,249

The total number of accidents increased in 1992. Fatal accidents were down 1.5%, personal injury accidents were down 0.6% and property damage accidents increased 7.1%.

**Table 3.2 Accident Rate Per One Million
Kilometres Travelled 1983-1992**

Year	Accident
	Rate
1983	2.8
1984	2.9
1985	2.8
1986	2.7
1987	2.8
1988	3.2
1989	3.2
1990	3.0
1991	2.9
1992	3.1

Table 3.3 Motor Vehicles Involved in Accidents
Based on Initial Impact 1992*

Motor Vehicle in Accident Involving	Class of Accident			Total
	Personal	Property		
Moveable Objects:	Fatal	Injury	Damage	
Other Motor Vehicle/s	915	82,391	238,760	322,066
Unattended Vehicles	17	940	15,783	16,740
Pedestrian	127	4,582	122	4,831
Cyclist	28	3,399	429	3,856
Railway Train	16	50	46	112
Street Car	-	28	238	266
Farm Tractor	2	39	124	165
Animal Domestic	2	106	522	630
Animal Wild	4	331	5,831	6,166
Other Moveable Objects	1	55	176	232
Sub-total	1,112	91,921	262,031	355,064

Fixed Objects:

Cable Guide Rail	2	98	555	655
Concrete Guide Rail	3	158	461	622
Steel Guide Rail	5	336	1,266	1,607
Pole (Utility Tower)	8	543	1,474	2,025
Pole (Sign/Parking Meter)	5	145	840	990
Fence/Noise Barrier	-	32	282	314
Culvert	3	41	56	100
Bridge Support	5	50	129	184
Rock Face	2	29	56	87
Snow Bank or Drift	1	88	279	368
Ditch	6	487	838	1,331
Curb	19	766	2,172	2,957
Crash Cushion	1	9	25	35
Building or Wall	3	52	218	273
Water Course	-	4	6	10
Construction Marker	1	17	51	69
Tree, Shrub or Stump	3	184	458	645
Other Fixed Object	5	327	1,423	1,755
Sub-total	72	3,366	10,589	14,027

Other Events

Ran Off Road	217	4,890	8,798	13,905
Skidding/Sliding	166	6,959	17,024	24,149
Jackknifing	-	29	156	185
Load Spill	-	9	71	80
Fire/Explosion	-	12	522	534
Submersion	-	1	5	6
Rollover	4	322	431	757
Debris on Road	2	92	581	675
Debris off Vehicle	4	80	570	654
Other Non-Collision Event	39	2,193	5,151	7,383
Sub-total	432	14,587	33,309	48,328

Total	1,616	109,874	305,929	417,419
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Table 3.4 Initial Impact Type
by Class of Accident 1992

Initial Impact Type	Class of Accident			Total
	Personal	Property		
	Fatal	Injury	Damage	
Approaching	179	1,884	2,269	4,332
Angle	111	8,045	16,960	25,116
Rear End	28	14,356	32,827	47,211
Sideswipe	50	3,175	18,126	21,351
Turning Movement	68	11,653	35,496	47,217
Single Motor Vehicle Unattended	10	928	15,889	16,827
Single Motor Vehicle Other	495	18,730	40,589	59,814
Other	1	118	2,259	2,378
Unknown	-	-	3	3
Total	942	58,889	164,418	224,249

Of all vehicles in fatal accidents 68.8% impacted movable objects. Fixed objects accounted for 4.5% and the remaining 26.7% involved other events such as skidding, jackknifing, rollover etc. For vehicles in injury accidents the respective figures were 83.7%, 3.1% and 13.2%. The percentage of vehicles in property damage accidents impacting movable objects was 85.6%, fixed objects was 3.5% and other events was 10.9%.

* Table 3.3 reflects the number of motor vehicles involved in accidents by initial impact.

3b

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Table 3.5 Month of Occurrence by Class of Accident 1992

Month of Occurrence	Class of Accident						Total	%
	Fatal	%	Injury	%	Property Damage	%		
January	67	7.1	4,665	7.9	16,781	10.2	21,513	9.6
February	67	7.1	4,254	7.3	13,840	8.4	18,161	8.1
March	53	5.6	3,893	6.6	12,262	7.5	16,208	7.2
April	66	7.0	3,916	6.6	10,648	6.5	14,630	6.5
May	80	8.5	5,043	8.6	11,909	7.2	17,032	7.6
June	77	8.2	5,170	8.8	11,936	7.3	17,183	7.7
July	85	9.0	5,503	9.3	13,025	7.9	18,613	8.3
August	100	10.6	5,439	9.2	11,769	7.2	17,308	7.7
September	82	8.7	5,072	8.6	12,520	7.6	17,674	7.9
October	95	10.1	5,315	9.0	14,383	8.7	19,793	8.8
November	87	9.2	5,211	8.8	16,238	9.9	21,536	9.6
December	83	8.8	5,408	9.2	19,107	11.6	24,598	11.0
Total	942	100.0	58,889	100.0	164,418	100.0	224,249	100.0

The day on which the highest percentage of fatal collisions occurred was Saturday, Friday had the next highest percentage. For personal injury and property damage collisions, the highest percentage was on Friday followed by Thursday.

The pattern of collisions for fatal, injury and property damage collisions differ by month of occurrence. The percentage of fatal collisions is higher in the summer and into fall. Personal injury collisions seem fairly evenly distributed by month. For property damage collisions the fall and winter have the highest percentages.

Table 3.6 Day of Week by Class of Accident 1992

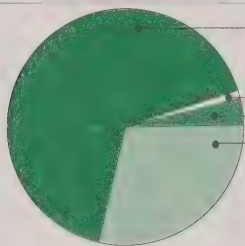
Day of Occurrence	Class of Accident						Total	%
	Fatal	%	Injury	%	Property Damage	%		
Monday	93	9.9	7,671	13.0	20,675	12.6	28,439	12.7
Tuesday	118	12.5	8,252	14.0	23,336	14.2	31,706	14.1
Wednesday	111	11.8	8,047	13.7	22,624	13.8	30,782	13.7
Thursday	132	14.0	9,267	15.7	26,751	16.3	36,150	16.1
Friday	158	16.8	10,516	17.8	30,273	18.4	40,947	18.2
Saturday	180	19.1	8,754	14.9	24,146	14.7	33,080	14.8
Sunday	150	15.9	6,382	10.8	16,613	10.1	23,145	10.3
Total	942	100.0	58,889	100.0	164,418	100.0	224,249	100.0

Table 3.7 **Hour of Occurrence by Class of Accident 1992**

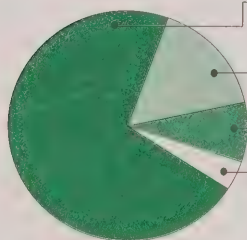
Hour of Occurrence A.M.	Class of Accident						Total	%
	Fatal	%	Personal Injury	%	Property Damage	%		
12 to 1 a.m.	43	4.5	1,160	1.9	3,228	1.9	4,431	1.9
1 to 2 a.m.	48	5.0	1,566	2.6	3,699	2.2	5,313	2.3
2 to 3 a.m.	41	4.3	1,043	1.7	2,684	1.6	3,768	1.6
3 to 4 a.m.	24	2.5	608	1.0	1,597	0.9	2,229	0.9
4 to 5 a.m.	15	1.5	408	0.6	1,066	0.6	1,489	0.6
5 to 6 a.m.	16	1.6	395	0.6	1,284	0.7	1,695	0.7
Sub total	187	19.8	5,180	8.7	13,558	8.2	18,925	8.4
6 to 7 a.m.	21	2.2	1,024	1.7	3,017	1.8	4,062	1.8
7 to 8 a.m.	32	3.3	1,934	3.2	5,885	3.5	7,851	3.5
8 to 9 a.m.	24	2.5	3,064	5.2	9,398	5.7	12,486	5.5
9 to 10 a.m.	27	2.8	2,162	3.6	7,310	4.4	9,499	4.2
10 to 11 a.m.	48	5.0	2,504	4.2	7,634	4.6	10,186	4.5
11 to 12 noon	35	3.7	3,116	5.2	8,936	5.4	12,087	5.3
Sub total	187	19.8	13,804	23.4	42,180	25.6	56,171	25.0
Hour of Occurrence P.M.								
12 to 1 p.m.	45	4.7	3,503	5.9	9,959	6.0	13,507	6.0
1 to 2 p.m.	42	4.4	3,503	5.9	9,634	5.8	13,179	5.8
2 to 3 p.m.	52	5.5	3,617	6.1	10,170	6.1	13,839	6.1
3 to 4 p.m.	57	6.0	4,798	8.1	12,531	7.6	17,386	7.7
4 to 5 p.m.	44	4.6	4,933	8.3	13,151	7.9	18,128	8.0
5 to 6 p.m.	46	4.8	4,569	7.7	12,240	7.4	16,855	7.5
Sub total	286	30.3	24,923	42.3	67,685	41.1	92,894	41.4
6 to 7 p.m.	65	6.9	3,752	6.3	9,736	5.9	13,553	6.0
7 to 8 p.m.	46	4.8	2,929	4.9	7,656	4.6	10,631	4.7
8 to 9 p.m.	45	4.7	2,388	4.0	6,261	3.8	8,694	3.8
9 to 10 p.m.	45	4.7	2,246	3.8	5,942	3.6	8,233	3.6
10 to 11 p.m.	38	4.0	1,835	3.1	4,963	3.0	6,836	3.0
11 to 12 midnight	38	4.0	1,655	2.8	4,423	2.6	6,116	2.7
Sub total	277	29.4	14,805	25.1	38,981	23.7	54,063	24.1
Unknown	5	0.5	177	0.3	2,014	1.2	2,196	0.9
Total	942	100.0	58,889	100.0	164,418	100.0	224,249	100.0

Table 3.8 Statutory Holidays, Holiday Weekends - Fatal Accidents, Persons Killed and Injured 1992

Statutory Holiday	Number of Fatal Accidents	Drivers		Passengers		Others		Total	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Easter Weekend	6	6	2	4	2	1	-	11	4
Victoria Day	10	7	4	3	6	1	-	11	15
Canada Day	1	1	-	-	-	-	-	1	-
Civic Holiday (Simcoe Day)	13	10	6	1	13	2	-	13	19
Labour Day	12	5	11	6	11	1	-	12	22
Thanksgiving Day	15	10	12	7	21	1	-	18	33
Christmas/Boxing Day	8	6	4	5	14	-	-	11	18

Figure 3.1 Light Condition by Class of Accident 1992**Table 3.9** Light Condition by Class of Accident 1992

Light	Class of Accident						Total	%
Condition			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Daylight	485	51.5	39,467	67.0	108,642	66.1	148,594	66.3
Dawn	21	2.2	721	1.2	2,265	1.4	3,007	1.3
Dusk	31	3.3	1,994	3.4	5,768	3.5	7,793	3.5
Darkness	404	42.9	16,687	28.3	47,575	28.9	64,666	28.8
Other	1	0.1	20	0.1	168	0.1	189	0.1
Total	942	100.0	58,889	100.0	164,418	100.0	224,249	100.0

Figure 3.2 Visibility by Class of Accidents 1992**Table 3.10** Visibility by Class of Accident 1992

Visibility	Class of Accident						Total	%
	Fatal		Personal Injury		Property Damage			
Clear	728	77.3	43,427	73.8	116,445	70.8	160,600	71.6
Rain	100	10.6	9,562	16.2	26,121	15.9	35,783	16.0
Snow	62	6.6	3,904	6.6	15,189	9.2	19,155	8.5
Freezing Rain	8	0.8	555	0.9	1,939	1.2	2,502	1.1
Drifting Snow	6	0.6	424	0.7	1,672	1.0	2,102	0.9
Strong Wind	3	0.3	141	0.2	447	0.3	591	0.3
Fog, Mist, Smoke or Dust	33	3.5	759	1.3	1,925	1.2	2,717	1.2
Other	2	0.2	117	0.2	680	0.4	799	0.4
Total	942	100.0	58,889	100.0	164,418	100.0	224,249	100.0

3c. the accident location

Table 3.11 Road Jurisdiction by Class of Accident 1992

Road Jurisdiction	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
Municipal (Excl. Twp. Rd.)	209	29,287	88,304	117,800
Provincial Highway	413	12,856	33,268	46,537
Township	92	2,998	7,687	10,777
County or District	97	2,791	6,298	9,186
Regional Municipality	127	10,646	28,037	38,810
Federal	1	236	662	899
Other	3	75	162	240
Total	942	58,889	164,418	224,249

Table 3.12 Road Jurisdiction for All Accidents 1983-1992

Road Jurisdiction	Year										Total
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
Municipal	119,230	136,456	128,809	120,799	135,949	159,228	139,926	117,218	112,651	117,800	1,288,066
Provincial	32,667	36,110	38,976	38,002	40,825	44,772	48,944	43,513	44,234	46,537	414,580
Township	11,330	11,628	10,562	10,092	10,460	12,277	11,882	10,684	10,332	10,777	110,024
County or District	5,258	6,248	7,002	7,027	7,024	7,527	8,773	8,582	8,482	9,186	75,109
Regional Municipality	12,592	3,393	3,166	10,185	7,863	3,620	36,237*	39,004	36,956	38,810	191,826
Federal**	-	-	-	-	-	748	940	913	769	899	4,269
Other	922	947	1,235	1,181	1,310	226	336	274	245	240	6,916
Total	181,999	194,782	189,750	187,286	203,431	228,398	247,038	220,188	213,669	224,249	2,090,790

*Some accidents occurring on regional municipal roads were recorded as occurring on municipal roads prior to 1989.

**Since January 1, 1988 the accident report form allows the recording of jurisdiction for federal roads.

Figure 3.3 Road Location
by Class of Accident
1992

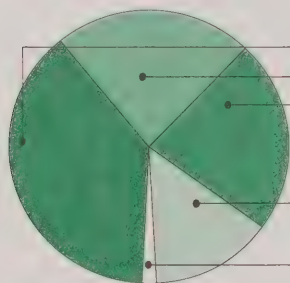


Table 3.13 Road Location by Class of Accident 1992

Road Location	Class of Accident						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Non-intersection	621	65.9	21,319	36.2	64,341	39.1	86,281	38.5
Intersection Related	70	7.4	13,100	22.2	38,296	23.3	51,466	23.0
In Intersection	154	16.3	16,771	28.5	34,185	20.8	51,110	22.8
At/Near Private Drive	58	6.2	6,844	11.6	25,358	15.4	32,260	14.4
At Railway	16	1.7	148	0.2	315	0.2	479	0.2
Underpass or Tunnel	3	0.3	79	0.1	231	0.1	313	0.1
Overpass or Bridge	16	1.7	473	0.8	1,208	0.7	1,697	0.8
Other	4	0.4	155	0.3	484	0.3	643	0.3
Total	942	100.0	58,889	100.0	164,418	100.0	224,249	100.0

Figure 3.4 Road Surface
Condition by
Class of Accident
1992

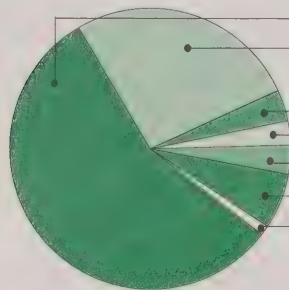


Table 3.14 Road Surface Condition by Class of Accident 1992

Road Surface	Class of Accident						Total	%
Condition			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Dry	629	66.8	35,129	59.7	90,191	54.9	125,949	56.2
Wet	192	20.4	15,997	27.2	43,516	26.5	59,705	26.6
Loose Snow	25	2.6	1,490	2.5	6,488	3.9	8,003	3.6
Slush	21	2.2	1,402	2.4	4,952	3.0	6,375	2.8
Packed Snow	22	2.3	1,319	2.2	6,305	3.8	7,646	3.4
Ice	38	4.0	2,988	5.1	11,275	6.8	14,301	6.4
Mud	-	0.0	19	0.0	75	0.0	94	0.0
Loose Sand or Gravel	8	0.8	388	0.6	791	0.5	1,187	0.5
Spilled Liquid	-	0.0	17	0.0	51	0.0	68	0.0
Other	7	0.7	140	0.2	774	0.5	921	0.4
Total	942	100.0	58,889	100.0	164,418	100.0	224,249	100.0

4

place of
accident in
Ontario

**Table 4.1 Place of Accident - Estimated Population, Class of Accident,
Persons Killed, Persons Injured and
Vehicle Registrations 1992**

Location	Estimated Population (1991)*	Class of Accident				Persons		Motor Vehicle Registrations
		Total Accidents	Fatal	Personal Injury	Property Damage	Killed	Injured	
Ontario	9,624,670	224,249	942	58,889	164,418	1,090	91,025	6,270,389
Blind River, t	3,913	38	0	15	23	0	26	
Elliot Lake, c	M 13,391	122	0	29	93	0	38	
Michipicoten, twp	M 4,139	1	0	0	1	0	0	
Sault Ste Marie, c	M 79,366	1,780	6	468	1,306	7	725	
Thessalon, t	1,452	11	0	2	9	0	2	
Provincial Highway	-	776	12	238	526	15	404	
Other Areas	14,240	289	3	75	211	3	102	
Algoma	116,501	3,017	21	827	2,169	25	1,297	86,300
Brantford, c	M 31,760	1,472	3	394	1,075	6	570	
Brantford, twp	6,327	5	0	1	4	0	1	
Burford, twp	1,995	1	0	0	1	0	0	
Paris, t	M 8,242	89	1	21	67	1	25	
Provincial Highway	-	432	2	147	283	3	277	
Other Areas	57,055	468	10	136	322	12	233	
Brant	105,339	2,467	16	699	1,752	22	1,106	71,796
Brant, twp	3,255	2	0	0	2	0	0	
Carrick, twp	2,308	4	0	1	3	0	1	
Chesley, t	1,855	10	0	1	9	0	2	
Culross, twp	1,578	2	0	0	2	0	0	
Kincardine, t	M 6,227	70	0	11	59	0	15	
Port Elgin, t	M 2,731	96	0	18	78	0	23	
Saugeen, twp	1,737	1	0	0	1	0	0	
Southampton, t	M 2,940	31	0	7	24	0	12	
Walkerton, t	M 4,788	58	0	7	51	0	11	
Warton, t	2,237	35	0	14	21	0	17	
Provincial Highway	-	283	0	78	205	0	150	
Other Areas	27,879	610	3	153	454	4	281	
Bruce	61,083	1,202	3	290	909	4	512	49,306
Cochrane, t	4,403	57	0	11	46	0	13	
Hearst, t	5,962	74	1	21	52	1	29	
Iroquois Falls, t	5,823	65	0	14	51	0	21	
Kapuskasing, t	M 10,328	129	0	32	97	0	43	
Smooth Rock Falls, t	2,004	17	0	3	14	0	3	
Timmins, c	M 46,697	737	1	196	540	1	276	
Provincial Highway	-	585	13	165	407	17	273	
Other Areas	10,213	247	2	77	168	2	108	
Cochrane	85,430	1,911	17	519	1,375	21	766	59,353
Armaranth, twp	3,146	2	0	0	2	0	0	
Mono, twp	5,766	1	0	0	1	0	0	

Legend	t town	Other Areas -	Jurisdictions	M Municipal Police Force
	c city		with less than	
	vl village		1,500 population	
	twp township			

* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1991

Table 4.1 Continued

Location	Estimated Population (1991)	Class of Accident				Persons		Motor Vehicle Registrations
		Total Accidents	Fatal	Personal Injury	Property Damage	Killed	Injured	
Mulmur, twp	2,483	1	0	1	0	0	2	
Orangeville, t	M 17,227	336	0	70	266	0	110	
Shelburne, t	M 3,352	34	0	4	30	0	5	
Provincial Highway	-	259	3	95	161	3	170	
Other Areas	6,802	372	4	118	250	5	191	
Dufferin	38,776	1,005	7	288	710	8	478	28,436
Morrisburg, vl	2,301	12	0	1	11	0	2	
Mountain, twp	3,223	2	0	0	2	0	0	
Williamsburg, twp	3,211	2	0	0	2	0	0	
Winchester, twp	3,279	21	0	5	16	0	6	
Winchester, vl	2,261	2	0	1	1	0	3	
Provincial Highway	-	176	2	56	118	2	110	(Veh. Reg.
Other Areas	5,832	225	0	67	158	0	104	Included in
Dundas	20,107	440	2	130	308	2	225	Stormont)
Ajax, t	54,542	563	0	131	432	0	203	
Brock, twp	10,530	73	2	20	51	2	30	
Newcastle, t	47,262	392	1	105	286	1	161	
Oshawa, c	123,681	2,366	6	609	1,751	6	895	
Pickering, t	64,946	665	0	151	514	0	227	
Scugog, twp	17,053	194	1	44	149	1	70	
Uxbridge, twp	13,241	157	3	30	124	5	51	
Whitby, t	59,152	1,070	0	284	786	0	457	
Provincial Highway	-	1,653	11	418	1,224	14	679	
Other Areas	-	631	2	146	483	2	210	
Durham	M 390,407	7,764	26	1,938	5,800	31	2,983	259,815
Aldborough, twp	2,628	2	0	1	1	0	1	
Aylmer, t	M 5,965	90	0	13	77	0	17	
Malahide, twp	5,587	1	0	1	0	0	2	
Port Stanley, vl	2,033	18	0	5	13	0	5	
St. Thomas, c	M 29,558	462	1	133	328	1	202	
Yarmouth, twp	7,605	1	0	0	1	0	0	
Provincial Highway	-	348	5	127	216	6	233	
Other Areas	19,348	405	4	159	242	4	259	
Elgin	72,724	1,327	10	439	878	11	719	55,621
Amherstburg, t	M 8,808	91	1	29	61	1	48	
Anderdon, twp	M 5,469	8	0	4	4	0	4	
Belle River, t	4,172	26	0	9	17	0	12	
Colchester South, twp	M 5,262	6	0	1	5	0	1	
Essex, t	M 6,601	47	0	10	37	0	11	
Gosfield North, twp	4,200	1	0	1	0	0	1	
Gosfield South, twp	7,536	2	0	0	2	0	0	
Harrow, t	2,510	27	0	2	25	0	2	
Kingsville, t	M 5,779	34	0	11	23	0	16	
Leamington, t	M 13,984	346	0	61	285	0	87	
Maidstone, twp	9,755	6	0	2	4	0	2	
Malden, twp	3,099	2	0	1	1	0	1	
Mersea, twp	M 8,355	11	0	3	8	0	3	

Table 4.1 Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)	Accidents	Fatal	Injury	Damage	Killed	Injured	
Rochester, twp		4,382	2	0	0	2	0	0	
St. Clair Beach, vl	M	3,542	17	0	1	16	0	1	
Sandwich South, twp		5,554	2	0	1	1	0	1	
Tecumseh, t		10,432	104	0	28	76	0	37	
Windsor, c	M	190,954	4,511	8	1,234	3,269	8	1,870	
Provincial Highway		-	604	10	206	388	13	360	
Other Areas		25,594	882	9	316	557	9	476	
Essex		325,988	6,729	28	1,920	4,781	31	2,933	205,187
Kingston, c	M	60,930	1,399	2	347	1,050	2	497	
Kingston, twp		37,412	25	0	5	20	0	7	
Loughborough, twp		4,133	1	0	1	0	0	1	
Portland, twp		4,345	2	0	0	2	0	0	
Storrington, twp		3,552	5	0	1	4	0	1	
Provincial Highway		-	812	5	227	580	5	365	
Other Areas		19,095	832	4	233	595	4	350	
Frontenac		129,467	3,076	11	814	2,251	11	1,221	82,931
Alexandria, t	M	3,194	72	0	22	50	0	35	
Charlottenburgh, twp		7,499	3	0	0	3	0	0	
Kenyon, twp		3,286	2	0	1	1	0	2	
Lancaster, twp		3,447	6	0	0	6	0	0	
Lochiel, twp		2,878	1	0	0	1	0	0	
Provincial Highway		-	228	4	71	153	5	119	(Veh. Reg.
Other Areas		1,605	248	3	93	152	3	132	included in
Glengarry		21,909	560	7	187	366	8	288	Stormont)
Cardinal, vl	M	1,483	2	0	0	2	0	0	
Kemptville, t	M	2,437	21	0	3	18	0	4	
Oxford On Rideau, twp		5,352	3	0	1	2	0	2	
Prescott, t	M	4,189	73	0	19	54	0	26	(Veh. Reg.
South Gower, twp		1,863	2	0	0	2	0	0	included
Provincial Highway		-	291	4	68	219	6	135	in Leeds)
Other Areas		13,808	369	5	80	284	7	134	
Grenville		29,132	761	9	171	581	13	301	
Collingwood, twp		2,915	4	0	0	4	0	0	
Durham, t	M	2,511	37	0	9	28	0	12	
Hanover, t	M	6,487	91	0	31	60	0	48	
Keppel, twp		3,437	1	0	1	0	0	1	
Meaford, t	M	4,182	40	0	9	31	0	15	
Normandy, twp		2,592	3	0	1	2	0	2	
Osprey, twp		1,906	1	0	0	1	0	0	
Owen Sound, c	M	20,809	365	0	88	277	0	138	
Proton, twp		1,689	1	0	1	0	0	1	
St. Vincent, twp		2,217	2	0	1	1	0	1	
Sullivan, twp		2,536	1	0	0	1	0	0	
Sydenham, twp		2,890	1	0	1	0	0	1	
Thornbury, t	M	1,566	11	0	2	9	0	2	

Table 4.1 Continued

Location	Estimated	Class of Accident				Persons		Motor Vehicle
	Population	Total		Personal	Property			Registrations
	(1991)	Accidents	Fatal	Injury	Damage	Killed	Injured	
Provincial Highway	-	404	5	114	285	7	199	
Other Areas	24,274	682	6	192	484	6	279	
Grey	80,011	1,644	11	450	1,183	13	699	54,816
Delhi, twp	14,930	157	2	36	119	2	52	
Dunnville, t	11,766	155	0	34	121	0	51	
Haldimand, t	19,880	117	2	31	84	2	48	
Nanticoke, c	21,759	206	5	69	132	7	103	
Norfolk, twp	10,883	62	0	17	45	0	27	
Simcoe, t	14,715	344	0	98	246	0	152	
Provincial Highway	-	427	5	152	270	6	283	
Other Areas	-	437	4	154	279	4	253	
Haldimand-Norfolk	M 93,933	1,905	18	591	1,296	21	969	74,073
Anson, Hindon & Minden, twp	2,902	10	0	1	9	0	1	
Dysart Et Al, twp	4,346	12	0	0	12	0	0	
Provincial Highway	-	239	0	56	183	0	102	
Other Areas	5,781	227	2	44	181	2	73	
Haliburton	13,029	488	2	101	385	2	176	11,297
Burlington, c	125,260	1,483	5	382	1,096	5	576	
Halton Hills, t	35,496	545	2	133	410	2	198	
Milton, t	30,138	617	3	187	427	3	301	
Oakville, t	109,718	1,283	1	283	999	1	406	
Provincial Highway	-	1,799	10	467	1,322	11	788	
Other Areas	-	85	0	26	59	0	37	
Halton	M 300,612	5,812	21	1,478	4,313	22	2,306	209,354
Ancaster, t	22,107	173	0	62	111	0	94	
Dundas, t	21,632	218	2	90	126	2	127	
Flamborough, t	29,281	205	1	72	132	1	117	
Glanbrook, twp	9,691	66	0	29	37	0	46	
Hamilton, c	316,897	4,963	14	1,846	3,103	15	2,725	
Stoney Creek, c	49,204	424	1	164	259	1	264	
Provincial Highway	-	1,531	12	469	1,050	17	862	
Other Areas	-	71	1	27	43	1	32	
Hamilton-Wentworth	M 448,812	7,651	31	2,759	4,861	37	4,267	259,466
Bancroft, vl	2,335	40	0	6	34	0	8	
Belleville, c	M 35,169	1,014	0	215	799	0	272	
Deseronto, t	M 1,810	15	1	3	11	1	4	
Frankford, vl	2,051	15	0	4	11	0	11	
Huntingdon, twp	2,146	1	0	0	1	0	0	
Madoc, twp	1,742	2	0	0	2	0	0	
Sidney, twp	16,338	9	0	1	8	0	1	
Stirling, vl	M 2,050	19	0	5	14	0	9	
Thurlow, twp	7,267	4	0	1	3	0	1	
Trenton, c	M 16,065	330	0	82	248	0	124	
Tweed, vl	1,510	35	0	8	27	0	13	
Tyendinaga, twp	2,990	3	0	1	2	0	1	
Provincial Highway	-	832	13	246	573	21	452	
Other Areas	18,926	734	8	219	507	9	334	

Table 4.1 Continued

Location	Estimated		Class of Accident				Persons		Motor Vehicle
	Population	Total		Personal	Property			Registrations	
	(1991)	Accidents	Fatal	Injury	Damage	Killed	Injured		
Hastings		110,399	3,053	22	791	2,240	31	1,230	87,858
Clinton, t	M	3,183	56	0	4	52	0	4	
Exeter, t	M	4,264	52	0	10	42	0	14	
Goderich, t	M	7,399	110	1	21	88	1	26	
Goderich, twp		2,494	13	0	2	11	0	2	
Grey, twp		2,015	2	0	0	2	0	0	
Hay, twp		2,106	1	0	1	0	0	2	
Morris, twp		1,712	3	0	2	1	0	4	
Seaforth, t	M	2,285	32	0	8	24	0	12	
Stephen, twp		4,326	2	0	0	2	0	0	
Tuckersmith, twp		3,078	1	0	0	1	0	0	
Turnberry, twp		1,579	2	0	1	1	0	1	
Wingham, t	M	3,003	25	0	6	19	0	6	
Provincial Highway		-	272	3	73	196	3	149	
Other Areas		21,098	367	7	112	248	7	203	
Huron		58,542	938	11	240	687	11	423	39,327
Dryden, t	M	6,257	132	1	17	114	2	30	
Ignace, twp		1,770	5	0	1	4	0	1	
Jaffray Melick, t		3,862	19	0	3	16	0	4	
Keewatin, t		2,052	23	0	4	19	0	4	
Kenora, t	M	9,570	307	0	53	254	0	76	
Red Lake, twp		2,084	5	0	0	5	0	0	
Sioux Lookout, t		3,082	64	1	17	46	1	21	
Provincial Highway		-	750	7	179	564	7	298	
Other Areas		6,903	297	2	75	220	2	123	
Kenora		35,580	1,602	11	349	1,242	12	557	36,607
Blenheim, t		4,570	54	0	13	41	0	20	
Camden, twp		2,192	1	0	0	1	0	0	
Chatham, c	M	42,800	908	2	224	682	3	343	
Chatham, twp		6,340	2	0	0	2	0	0	
Dresden, t	M	2,626	35	1	14	20	1	17	
Harwich, twp		5,993	2	0	1	1	0	1	
Howard, twp		2,305	1	0	0	1	0	0	
Raleigh, twp		5,451	1	0	0	1	0	0	
Ridgetown, t		3,204	20	0	4	16	0	6	
Tilbury, t	M	4,294	62	0	11	51	0	11	
Tilbury East, twp		2,298	3	0	0	3	0	0	
Wallaceburg, t	M	11,684	146	0	46	100	0	63	
Wheatly, vl		1,533	13	0	4	9	0	8	
Provincial Highway		-	358	8	134	216	10	239	
Other Areas		11,325	488	9	165	314	11	261	
Kent		106,615	2,094	20	616	1,458	25	969	77,369
Bosanquet, twp		4,901	1	0	0	1	0	0	
Brooke, twp		1,862	1	0	0	1	0	0	
Enniskillen, twp		3,117	3	0	1	2	0	1	
Forest, t		2,769	25	0	7	18	0	12	

Table 4.1 Continued

Location	Estimated Population (1991)	Class of Accident				Persons		Motor Vehicle Registrations
		Total Accidents	Fatal	Personal Injury	Property Damage	Killed	Injured	
Moore, twp	10,432	5	0	2	3	0	2	
Petrolia, t	M 4,510	44	0	10	34	0	12	
Plympton, twp	5,116	2	0	1	1	0	1	
Point Edward, vl	M 2,323	28	0	14	14	0	21	
Sarnia, c	M 72,684	1,426	5	326	1,095	5	464	
Sombra, twp	4,053	2	0	1	1	0	1	
Wyoming, vl	1,988	9	0	5	4	0	5	
Provincial Highway	-	383	4	125	254	5	205	
Other Areas	10,248	411	4	134	273	4	191	
Lambton	124,003	2,340	13	626	1,701	14	915	87,799
Almonte, t	4,249	24	0	8	16	0	19	
Beckwith, twp	4,211	3	0	1	2	0	2	
Carleton Place, t	M 7,080	126	0	16	110	0	16	
Drummond, twp	2,658	1	0	0	1	0	0	
Pakenham, twp	1,767	2	0	0	2	0	0	
Perth, t	M 5,438	126	0	31	95	0	43	
Ramsay, twp	3,719	3	0	0	3	0	0	
Smiths Falls, t	M 9,235	265	0	46	219	0	58	
Provincial Highway	-	377	7	104	266	7	217	
Other Areas	14,632	495	3	117	375	3	180	
Lanark	52,989	1,422	10	323	1,089	10	535	38,536
Bastard & S. Burgess, twp	2,422	1	0	0	1	0	0	
Brockville, c	M 21,207	525	0	116	409	0	161	
Elizabethtown, twp	7,021	2	0	2	0	0	3	
Front of Leeds Lansdowne, twp	4,638	3	0	1	2	0	1	
Front of Yonge, twp	2,239	1	0	1	0	0	1	
Gananoque, t	M 4,988	78	0	17	61	0	24	
R Leeds & Lansdowne, twp	2,569	3	0	0	3	0	0	
R Yonge and Escott, twp	1,768	7	0	1	6	0	1	
South Crosby, twp	1,649	3	0	0	3	0	0	
South Elmsley, twp	3,080	3	0	1	2	0	3	(Veh. Reg.
Provincial Highway	-	538	7	177	354	8	336	Includes
Other Areas	6,042	393	6	98	289	8	148	Grenville)
Leeds	57,623	1,557	13	414	1,130	16	678	64,243
Ernestown, twp	11,100	1	0	0	1	0	0	
Napanee, t	4,849	147	0	34	113	0	53	
Provincial Highway	-	421	5	130	286	6	240	
Other Areas	18,481	311	2	84	225	3	120	
Lennox & Addington	34,430	880	7	248	625	9	413	23,020
Provincial Highway	-	130	3	42	85	6	66	
Other Areas	7,069	145	2	38	105	2	69	
Manitoulin	7,069	275	5	80	190	8	135	8,411
Biddulph, twp	2,138	1	0	0	1	0	0	
Caradoc, twp	6,043	1	0	1	0	0	2	
Delaware, twp	2,547	1	0	1	0	0	1	
Ekfrid, twp	2,141	1	0	0	1	0	0	
Glencoe, vl	2,062	17	0	3	14	0	3	

Table 4.1 Continued

Location	Estimated Population (1991)	Class of Accident				Persons		Motor Vehicle Registrations
		Total	Fatal	Personal	Property	Killed	Injured	
London, c	M 302,679	5,867	10	1,960	3,897	11	2,900	
London, twp	5,633	3	0	0	3	0	0	
Lucan, vl	1,810	12	0	4	8	0	4	
North Dorchester, twp	7,850	7	0	2	5	0	5	
Strathroy, t	M 10,370	97	0	20	77	0	30	
Westminster, t	6,563	39	1	13	25	1	18	
West Nissouri, twp	3,442	1	0	0	1	0	0	
Provincial Highway	-	916	12	267	637	12	481	
Other Areas	16,935	989	6	312	671	6	504	
Middlesex	370,213	7,952	29	2,583	5,340	30	3,948	236,525
Bracebridge, t	10,912	153	0	42	111	0	63	
Gravenhurst, t	8,953	106	1	24	81	1	30	
Huntsville, t	13,404	120	0	32	88	0	50	
Lake of Bays, twp	2,526	2	0	2	0	0	2	
Muskoka Lakes, twp	5,236	43	0	11	32	0	19	
Provincial Highway	-	665	5	214	446	6	361	
Other Areas	-	363	1	103	259	1	154	
Muskoka	43,049	1,452	7	428	1,017	8	679	36,040
Fort Erie, t	25,495	402	0	109	293	0	165	
Grimsby, t	18,057	214	2	56	156	2	87	
Lincoln, t	16,523	211	1	50	160	1	83	
Niagara on the Lake, t	12,410	148	1	44	103	1	84	
Niagara Falls, c	74,633	1,812	4	394	1,414	5	604	
Pelham, t	13,319	154	1	43	110	1	72	
Port Colborne, c	18,627	254	2	58	194	2	78	
St. Catharines, c	124,689	2,659	4	580	2,075	4	850	
Thorold, c	17,542	241	0	53	188	0	92	
Wainfleet, twp	6,040	65	0	14	51	0	17	
Welland, c	47,525	1,004	0	195	809	0	274	
West Lincoln, twp	10,536	111	1	34	76	1	54	
Provincial Highway	-	1,563	7	458	1,098	7	855	
Other Areas	-	457	5	110	342	6	158	
Niagara	M 385,396	9,295	28	2,198	7,069	30	3,473	264,148
Bonfield, twp	1,863	1	0	0	1	0	0	
East Ferris, twp	3,919	1	0	1	0	0	1	
Mattawa, t	2,413	10	0	1	9	0	1	
North Bay, c	M 56,611	843	0	245	598	0	322	
Springer, twp	2,445	3	0	0	3	0	0	
Sturgeon Falls, t	M 5,952	78	0	16	62	0	23	
Provincial Highway	-	746	14	234	498	22	420	
Other Areas	7,396	301	0	99	202	0	148	
Nipissing	78,599	1,983	14	596	1,373	22	915	55,793
Brighton, t	4,108	44	0	16	28	0	19	
Brighton, twp	3,285	2	0	0	2	0	0	
Campellford, t	3,395	52	0	10	42	0	12	
Cobourg, t	M 14,643	254	0	61	193	0	87	

Table 4.1 Continued

Location	Estimated	Class of Accident				Persons		Motor Vehicle
	Population	Total		Personal	Property			Registrations
	(1991)	Accidents	Fatal	Injury	Damage	Killed	Injured	
Colborne, vl	1,971	12	0	5	7	0	6	
Cramahe, twp	2,853	1	0	1	0	0	1	
Haldimand, twp	4,041	5	0	0	5	0	0	
Hope, twp	9,211	1	0	1	0	0	3	
Murray, twp	6,520	2	0	0	2	0	0	
Percy, twp	3,082	2	0	0	2	0	0	
Port Hope, t	M 11,198	77	0	22	55	0	32	
Provincial Highway	-	747	22	250	475	26	516	
Other Areas	5,626	566	3	169	394	3	262	
Northumberland	73,969	1,765	25	535	1,205	29	938	50,987
Cumberland, twp	39,520	172	0	51	121	0	76	
Gloucester, c	M 99,277	1,296	6	292	998	6	413	
Goulbourn, twp	15,573	151	1	35	115	1	57	
Kanata, c	35,866	481	0	115	366	0	161	
Nepean, c	M 105,582	1,651	3	354	1,294	3	513	
Osgoode, twp	13,541	148	0	48	100	0	77	
Ottawa, c	M 308,366	8,124	17	2,170	5,937	18	2,977	
Rideau, twp	11,420	139	1	30	108	1	48	
Rockcliffe Park, vl	2,328	19	0	1	18	0	2	
Vanier, c	18,053	359	1	111	247	1	157	
West Carleton, twp	14,366	111	0	39	72	0	63	
Provincial Highway	-	2,121	15	541	1,565	16	870	
Other Areas	2,018	1,060	4	270	786	4	399	
Ottawa-Carleton	663,898	15,832	48	4,057	11,727	50	5,813	382,043
Ingersoll, t	M 8,935	116	0	17	99	0	21	
Norwich, twp	M 9,991	17	1	5	11	1	7	
S West Oxford, twp	8,283	4	0	1	3	0	3	
Tillsonburg, t	M 11,718	164	0	41	123	0	65	
Woodstock, c	M 29,029	657	1	178	478	1	249	
Provincial Highway	-	551	14	168	369	17	329	
Other Areas	22,050	546	13	160	373	15	270	
Oxford	90,006	2,055	29	570	1,456	34	944	66,611
McDougall, twp	1,995	3	0	1	2	0	1	
North Himsworth, twp	2,913	2	0	1	1	0	2	
Provincial Highway	-	675	11	191	473	15	328	
Other Areas	27,562	511	5	115	391	5	174	
Parry Sound	32,470	1,191	16	308	867	20	505	32,514
Brampton, c	217,892	3,240	6	747	2,487	6	1,163	
Caledon, t	33,538	676	7	197	472	8	315	
Mississauga, c	434,093	6,897	17	1,481	5,399	18	2,228	
Provincial Highway	-	2,893	23	802	2,068	25	1,311	
Other Areas	-	280	0	60	220	0	92	
Peel	685,523	13,986	53	3,287	10,646	57	5,109	458,573
Listowel, t	M 5,382	97	0	7	90	0	7	
Mitchell, t	M 3,366	27	0	5	22	0	5	
St. Marys, t	M 5,482	79	0	6	73	0	8	

Table 4.1 Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)	Accidents	Fatal	Injury	Damage	Killed	Injured	
Stratford, c	M	27,311	579	2	159	418	2	226	
Provincial Highway		-	275	0	68	207	0	120	
Other Areas		27,709	386	7	117	262	7	192	
Perth		69,250	1,443	9	362	1,072	9	558	47,271
Belmont & Methuen, twp		2,794	1	0	0	1	0	0	
Duoro, twp		3,514	1	0	0	1	0	0	
Dummer, twp		2,634	1	0	1	0	0	2	
Harvey, twp		2,755	1	0	1	0	0	2	
Lakefield, vl	M	2,456	18	0	5	13	0	5	
Peterborough, c	M	67,823	1,010	3	342	665	3	489	
Smith, twp		8,504	2	0	1	1	0	2	
Provincial Highway		-	549	3	177	369	6	319	
Other Areas		25,508	645	1	178	466	2	276	
Peterborough		115,988	2,228	7	705	1,516	11	1,095	80,620
Alfred, twp		1,999	2	0	0	2	0	0	
East Hawkesbury, twp		3,090	3	0	1	2	0	1	
Hawkesbury, t	M	9,547	245	0	41	204	0	52	
L'Orignal, vl		2,052	12	0	5	7	0	5	
Plantagenet South, twp		1,650	1	0	0	1	0	0	
Vankleek Hill, t		1,940	20	0	1	19	0	1	
West Hawkesbury, twp		2,862	3	0	0	3	0	0	(Veh. Reg.
Provincial Highway		-	209	6	69	134	6	123	includes
Other Areas		8,434	284	3	96	185	3	140	Russell)
Prescott		31,574	779	9	213	557	9	322	54,975
Ameliasburg, twp		5,154	1	0	0	1	0	0	
Hallowell, twp		4,168	2	0	0	2	0	0	
Pictou, t		4,067	95	0	17	78	0	22	
Sophiasburgh, twp		1,954	1	0	0	1	0	0	
Provincial Highways		-	105	2	35	68	2	68	
Other Areas		6,922	303	6	71	226	7	110	
Prince Edward		22,265	507	8	123	376	9	200	17,271
Atikokan, twp	M	3,805	2	0	1	1	0	3	
Fort Frances, t	M	8,682	224	0	36	188	0	48	
Provincial Highway		-	278	3	55	220	4	87	
Other Areas		6,316	132	3	20	109	3	31	
Rainy River		18,803	636	6	112	518	7	169	16,846
Arnprior,t		6,095	97	0	9	88	0	15	
Deep River, t	M	4,175	11	0	3	8	0	4	
Horton, twp		2,251	1	0	0	1	0	0	
Pembroke, c	M	13,379	350	1	101	248	1	170	
Pembroke, twp		1,757	3	0	3	0	0	14	
Petawawa, twp		8,145	1	0	0	1	0	0	
Petawawa, vl		5,291	14	0	1	13	0	1	
Renfrew, t	M	7,837	142	1	37	104	1	54	
Provincial Highway		-	646	16	162	468	20	309	
Other Areas		38,405	745	4	211	530	7	320	

Table 4.1 Continued

Location	Estimated		Class of Accident				Persons		Motor Vehicle
	Population		Total		Personal	Property			Registrations
	(1991)		Accidents	Fatal	Injury	Damage	Killed	Injured	
Renfrew		87,335	2,010	22	527	1,461	29	887	65,951
Casselman, vl		2,341	12	0	1	11	0	1	
Clarence, twp		8,834	5	0	2	3	0	2	
Rockland, t		6,448	87	0	18	69	0	22	
Provincial Highway		-	129	0	43	86	0	89	(Veh. Reg.
Other Areas		16,057	381	3	114	264	4	180	included in
Russell		33,680	614	3	178	433	4	294	Prescott)
Adjala, twp		4,356	1	0	0	1	0	0	
Barrie, c	M	60,870	1,344	0	278	1,066	0	406	
Bradford W. Gwillim.,t	M	16,585	224	0	57	167	0	89	
Collingwood, t	M	12,667	290	0	59	231	0	83	
Elmvale, vl		1,691	15	0	1	14	0	1	
Essa, twp		13,142	6	0	1	5	0	2	
Flos, twp		2,898	1	0	0	1	0	0	
Innisfil, t	M	20,618	172	1	30	141	1	52	
Mara, twp		4,819	1	0	1	0	0	1	
Medonte, twp		5,581	3	0	1	2	0	1	
Midland, t	M	13,114	288	0	82	206	0	146	
New Tecumseth, t	M	19,282	140	0	24	116	0	36	
Orillia, c	M	24,062	585	1	129	455	1	191	
Orillia, twp		7,934	3	0	0	3	0	0	
Penetanguishene, t	M	6,051	105	0	31	74	0	43	
Port McNicoll, vl		2,046	13	0	3	10	0	3	
Stayner, t		3,173	43	0	11	32	0	19	
Sunnidale, twp		2,718	3	0	1	2	0	1	
Tay, twp		6,289	9	0	4	5	0	5	
Tiny, twp		8,552	3	0	2	1	0	4	
Tosorontio, twp		4,011	3	0	1	2	0	2	
Vespra, twp		7,604	3	0	0	3	0	0	
Wasaga Beach, t		5,798	132	0	36	96	0	57	
Provincial Highway		-	2,230	12	602	1,616	14	1,102	
Other Areas		20,501	1,595	19	450	1,126	22	701	
Simcoe		274,362	7,212	33	1,804	5,375	38	2,945	207,044
Cornwall, c	M	46,619	1,231	2	374	855	2	564	(Veh. Reg.
Provincial Highway		-	198	3	65	130	4	127	incl. Dundas
Other Areas		16,791	180	0	59	121	0	80	& Glengarry)
Stormont		63,410	1,609	5	498	1,106	6	771	72,032
Capreol, t		3,684	42	1	10	31	1	14	
Espanola, t	M	5,312	61	0	13	48	0	14	
Nickel Centre, t		11,815	126	0	50	76	0	77	
Onaping Falls, t		5,303	24	0	6	18	0	7	
Rayside-Balfour, t		14,606	142	3	39	100	3	68	
Sudbury, c	M	90,402	2,739	6	705	2,028	6	1,118	
Valley East, t		21,149	294	3	106	185	4	189	
Walden, t		9,411	101	1	21	79	1	40	
Provincial Highway		-	821	7	272	542	12	452	

Table 4.1 Continued

Location	Estimated Population (1991)	Class of Accident				Persons		Motor Vehicle Registrations
		Total Accidents	Fatal	Personal Injury	Property Damage	Killed	Injured	
Other Areas	11,859	437	1	125	311	2	187	
Sudbury , Reg. Mun. M								
And District	173,541	4,787	22	1,347	3,418	29	2,166	125,340
Geraldton, t	2,461	37	0	8	29	0	9	
Longlac, t	1,925	28	0	8	20	0	14	
Manitouwadge, twp	3,719	36	0	5	31	0	9	
Marathon, t M	4,838	35	0	2	33	0	2	
Nipigon, twp	2,253	10	0	3	7	0	3	
Oliver, twp	2,376	1	0	0	1	0	0	
Paipoonage, twp	2,866	1	0	0	1	0	0	
Schreiber, twp	1,865	1	0	0	1	0	0	
Terrace Bay, twp M	2,430	12	0	4	8	0	4	
Thunder Bay, c M	110,289	2,922	6	643	2,273	6	935	
Provincial Highway	-	1,106	11	343	752	13	592	
Other Areas	7,334	331	1	82	248	2	118	
Thunder Bay	142,356	4,520	18	1,098	3,404	21	1,686	115,146
Englehart, t	1,702	10	0	2	8	0	2	
Haileybury, t	4,819	43	0	8	35	0	9	
Kirkland Lake, t M	10,638	162	0	25	137	0	31	
New Liskeard, t M	5,406	110	0	21	89	0	30	
Provincial Highway	-	424	9	116	299	10	209	
Other Areas	12,667	153	1	42	110	1	89	
Timiskaming	35,232	902	10	214	678	11	370	27,016
East York, borough	97,250	922	2	203	717	2	280	
Etobicoke, c	295,915	4,964	14	1,370	3,580	15	2,081	
North York, c	541,796	10,600	18	3,012	7,570	23	4,811	
Scarborough, c	485,240	9,098	10	2,316	6,772	11	3,450	
Toronto, c	598,939	21,212	37	5,159	16,016	39	7,142	
York, c	132,290	1,506	3	348	1,155	3	508	
Provincial Highway	-	8,018	12	1,760	6,246	12	2,886	
Toronto, Metro	M 2,151,430	56,320	96	14,168	42,056	105	21,158	1,114,199
Bobcaygeon, vl	2,371	10	0	2	8	0	3	
Emily, twp	6,110	9	0	1	8	0	1	
Fenelon, twp	5,493	8	0	2	6	0	2	
Fenelon Falls, vl	1,799	29	0	5	24	0	7	
Lindsay, t M	16,206	341	1	85	255	1	131	
Manvers, twp	5,006	4	0	0	4	0	0	
Mariposa, twp	6,568	1	0	0	1	0	0	
Verulam, twp	3,689	5	0	0	5	0	0	
Provincial Highway	-	499	12	133	354	13	234	
Other Areas	13,579	598	3	175	420	3	291	
Victoria	60,777	1,504	16	403	1,085	17	669	48,496
Cambridge, c	89,953	1,594	0	428	1,166	0	637	
Kitchener, c	163,923	3,082	3	763	2,316	3	1,102	
North Dumfries, twp	6,541	82	0	23	59	0	34	
Waterloo, c	72,062	1,282	1	305	976	1	408	

Table 4.1 Continued

Location	Estimated	Class of Accident				Persons		Motor Vehicle
	Population	Total		Personal	Property			Registrations
	(1991)	Accidents	Fatal	Injury	Damage	Killed	Injured	
Wellesley, twp	8,021	29	1	9	19	1	17	
Wilmot, twp	12,699	113	1	37	75	1	61	
Woolwich, twp	17,131	192	2	59	131	3	120	
Provincial Highway	-	997	6	275	716	8	471	
Other Areas	-	307	2	92	213	2	127	
Waterloo	M 370,330	7,678	16	1,991	5,671	19	2,977	236,353
Arthur, twp	2,456	3	0	1	2	0	1	
Arthur, vl	2,033	16	0	4	12	0	5	
Elora, vl	3,119	37	0	8	29	0	15	
Eramosa, twp	5,789	1	0	0	1	0	0	
Erin, twp	7,263	7	0	0	7	0	0	
Erin, vl	2,400	21	0	5	16	0	9	
Fergus, t	M 7,657	82	0	20	62	0	29	
Guelph, c	M 85,625	1,290	3	430	857	4	641	
Guelph, twp	3,122	7	0	0	7	0	0	
Harriston, t	M 1,946	20	0	8	12	0	11	
Mount Forest, t	4,095	55	0	7	48	0	8	
Palmerston, t	M 2,273	12	0	2	10	0	2	
Peel, twp	4,238	1	0	0	1	0	0	
Pilkington, twp	2,337	1	0	0	1	0	0	
Puslinch, twp	4,843	5	0	2	3	0	3	
West Garafraxa, twp	3,147	2	0	0	2	0	0	
Provincial Highway	-	847	8	265	574	9	480	
Other Areas	11,766	930	6	251	673	6	388	
Wellington	154,109	3,337	17	1,003	2,317	19	1,592	105,378
Aurora, t	27,840	442	0	86	356	0	127	
Georgina, t	27,838	287	1	76	210	1	135	
E. Gwillimbury, t	17,346	290	3	88	199	3	149	
King, twp	17,444	246	2	64	180	3	104	
Markham, t	145,325	1,949	5	333	1,611	6	500	
Newmarket, t	42,932	612	1	101	510	1	166	
Richmond Hill, t	74,007	947	5	157	785	5	237	
Vaughan, c	106,460	1,827	6	315	1,506	7	461	
Whitchurch Stouffville, t	17,403	227	1	51	175	1	83	
Provincial Highways	-	3,421	20	927	2,474	22	1,632	
Other Areas	-	484	0	95	389	0	147	
York	M 476,595	10,732	44	2,293	8,395	49	3,741	346,784

* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1991

Population data in this table refers to those persons residing in a municipality on a permanent basis.

5 the vehicle

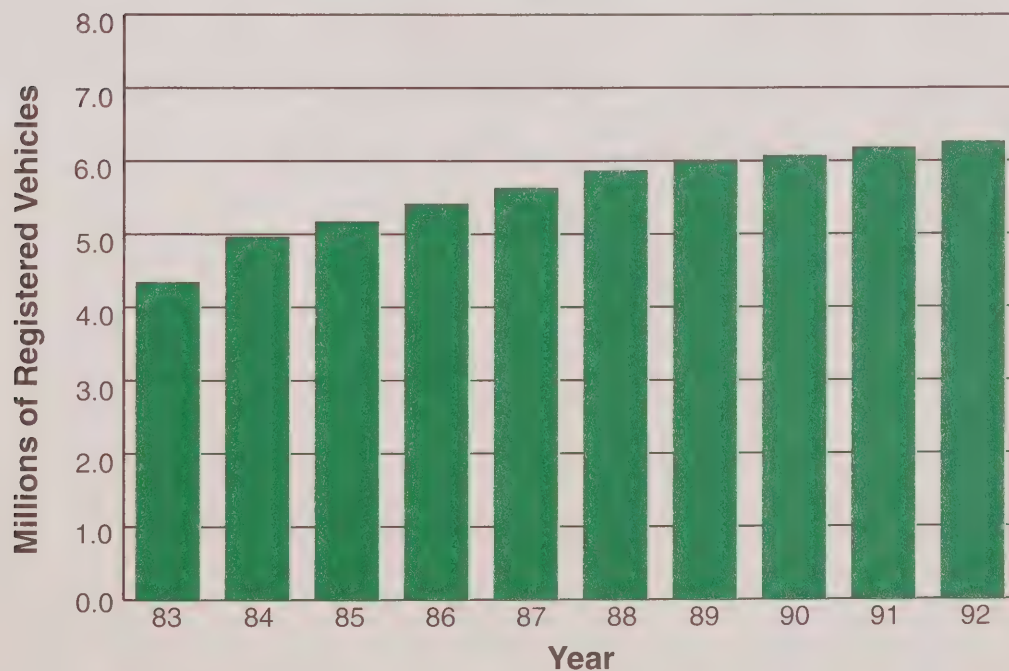
Passenger vehicles represent 74.4% of all registered vehicles, but are 62% of vehicles in fatal collisions, 74% in injury collisions, and 73% in property damage collisions. Trucks are 16% of registered vehicles. Tractor & semi-trailer vehicles are 5%, 1.2% and 1.6% in fatal, injury and property damage collisions respectively. Trucks were 24% of fatal, 18% of personal injury and 20% of property damage collisions. Motorcycles are 1.7% of vehicles but 3% of fatal collisions, 2% of injury collisions and one quarter of one per cent in property damage collisions.

Of those vehicles in fatal collisions 92% had no defect, 95% and 93% had no defects in personal injury and property damage collisions respectively.

Of the vehicles involved in collisions, 2% were uninsured. This breaks down to 4%, 3% and 1% in fatal, injury and property damage collisions.

Of all vehicles in collisions 7.2% had no damage, 37.2% had light damage, 32.1% had moderate damage, 13.3% had severe damage and 4.5% were demolished. The remaining 5.8% were unknown.

Registered Vehicles in Ontario, 1983-1992



5a. vehicles in accidents

Table 5.1 Type of Vehicle Involved in All Accidents 1992

Type of Vehicle	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
Passenger Car	997	80,935	223,629	305,561
Passenger Car & Trailer	4	235	626	865
Truck	372	18,852	60,221	79,445
Truck & Trailer	13	535	1,908	2,456
Tractor & Semi-trailer	80	1,254	4,426	5,760
Motorcycle	53	2,044	646	2,743
Bus	13	659	1,810	2,482
School Bus/Vehicle	8	259	1,051	1,318
Other - Or not Known	8	1,169	10,086	11,263
Non Motor Vehicle	68	3,932	1,526	5,526
Total	1,616	109,874	305,929	417,419

In 1988, major revisions were made in the recording of motor vehicle accident data. The above table now reflects a consolidation of various types of vehicles and/or trailers. Therefore, valid conclusions cannot be made when comparing these data to that of the years previous to 1988.

More detailed information for some vehicles is provided in the Vehicles of Special Interest Section.

Table 5.2 Condition of Vehicle by
Class of Accident 1992

Condition of Vehicle	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
No Apparent Defect	1,501	104,869	283,926	390,296
Service Brakes Defective	6	210	357	573
Steering Defective	1	29	46	76
Tire Puncture or Blow Out	5	91	276	372
Tire Tread Insufficient	14	60	102	176
Headlamps Defective	1	12	20	33
Other Lamps or Reflectors Defective	-	38	87	125
Engine Controls Defective	2	14	62	78
Wheels or Suspension Defective	-	20	83	103
Vision Obscured	-	6	23	29
Trailer Hitch Defective	-	3	35	38
Other Defects	13	812	2,163	2,988
Unknown	73	3,710	18,749	22,532
Total	1,616	109,874	305,929	417,419

Table 5.3 Model Year of Vehicle by Class of
Accident 1992

Model Year of Vehicle	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
1993	5	375	1,195	1,575
1992	88	6,020	17,289	23,397
1991	102	8,275	23,577	31,954
1990	153	9,150	26,560	35,863
1989	159	10,447	29,813	40,419
1988	162	11,004	31,773	42,939
1987	144	9,772	27,799	37,715
1986	154	10,380	28,552	39,086
1985	136	9,033	24,204	33,373
1984	88	7,716	20,256	28,060
1983 and earlier	368	22,024	57,789	80,181
Unknown	57	5,678	17,122	22,857
Total	1,616	109,874	305,929	417,419

Most vehicles in collisions were recorded as not having a defect. The most common known defect in fatal collisions was insufficient tire tread. In personal injury and property damage collisions the most common known defect was defective brakes followed by tire puncture or blow out.

Table 5.4 Insurance Status of Vehicle by Class of Accident 1992

Insurance	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
Insured	1,465	100,045	281,720	383,230
Not Insured	69	3,296	4,227	7,592
Unknown	82	6,533	19,982	26,597
Total	1,616	109,874	305,929	417,419

5b. putting the vehicle in context

**Table 5.5 Vehicle Population by
Type of Vehicle 1992**

Vehicle Class	
Passenger	4,925,298
Motorcycle	113,637
Moped	3,931
Commercial*	1,046,800
Bus	19,882
School Bus	9,448
Motorized Snow Vehicle	366,730
Off-Road Vehicle	92,020
Road Building Machinery	905
Permanent Apparatus	3,928
Farm Trucks	33,798
Total	6,616,377

* Excludes Single Application Vehicle Registrations (SAVR).

Table 5.7 Vehicle Damage Level 1992

Damage	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
None	98	10,860	19,093	30,051
Light	149	27,966	126,938	155,053
Moderate	180	29,259	104,421	133,860
Severe	253	24,947	30,154	55,354
Demolished	902	12,388	5,433	18,723
Unknown	34	4,454	19,890	24,378
Total	1,616	109,874	305,929	417,419

Vehicle Damage

None	No visible damage.
Light	Slight or superficial damage. Includes scratches, small dents, minor cracks in glass that do not affect safety or performance of vehicle.
Moderate	Unsafe conditions result from damage. Vehicle must be repaired to make its condition meet requirements of law. Vehicle can be driven off road or limited distance but doing so would be unsafe.
Severe	Vehicle cannot be driven. Requires towing. Would normally be repaired.
Demolished	Vehicle damaged to the extent that repairs would not be feasible.

Table 5.6 Selected Types of Vehicles by Model Year 1992

Vehicle Class	Model Years											Total
	93	92	91	90	89	88	87	86	85	84	83+	
Passenger	75,480	370,739	384,221	407,671	450,783	472,310	434,624	474,737	410,874	352,551	1,091,308	4,925,298
Motorcycle	190	2,657	2,847	3,386	3,667	4,049	4,141	7,401	10,136	11,929	63,234	113,637
Moped	-	9	23	27	25	14	62	62	60	46	3,603	3,931
Commercial*	12,525	57,768	61,517	84,465	104,528	119,847	93,782	94,008	77,084	61,524	318,383	1,085,431
Bus	225	2,073	2,331	2,856	3,051	3,074	2,968	2,205	2,199	1,637	6,711	29,330
Motorized Snow Vehicle	8,897	10,173	15,338	17,278	17,250	15,216	12,201	9,802	8,218	5,738	246,619	366,730
Off-Road Vehicle	1,023	4,288	4,755	5,653	4,632	4,091	7,669	12,096	11,220	12,785	23,808	92,020
Total	98,340	447,707	471,032	521,336	583,936	618,601	555,447	600,311	519,791	446,210	1,753,666	6,616,377

6

**vehicles of
special
interest**

While passenger vehicles make up the majority of the motor vehicle population in Ontario, they share the road with other vehicles such as motorcycles, school vehicles, trucks, motorized snow vehicles, off-road vehicles, and bicycles. These vehicles present some special concerns in terms of

their operating characteristics, accident trends, changes in vehicle population size or in areas of particular public concern. Some of the statistics pertaining to the unique road safety issues concerning these vehicles are presented in this section.



6a. motorcycles

Table 6.1 Motorcyclists*
Killed and Injured
1988 - 1992

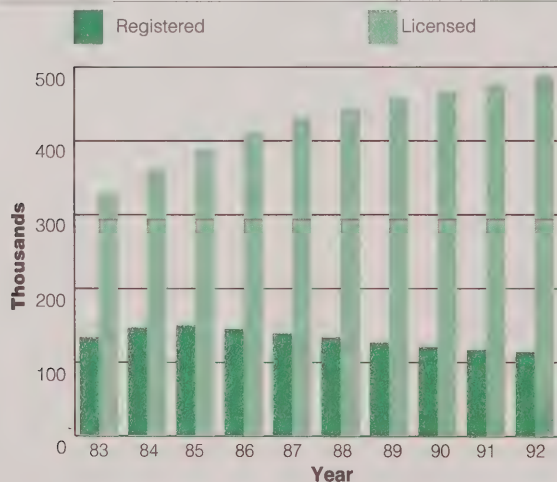
Year	Drivers		Passengers	
	Killed	Injured	Killed	Injured
1988	76	3,866	13	666
1989	78	2,945	8	599
1990	68	2,392	6	580
1991	55	2,183	9	487
1992	47	1,814	6	404

* Excludes moped drivers and passengers.

Table 6.2 Selected Factors
Relevant to Fatal Motorcycle
Accidents 1992

Factors	%
Unlicensed Motorcycle Drivers	17
Under 25 Years Old	44
Alcohol Used	
Ability Impaired Alcohol >.08	33
Had Been Drinking	10
Unknown	12
Helmet Not Worn (Fatalities)	19
Motorcycle Driver Error	
Speed Too Fast/Lost Control	60
Other Error	15
Single Vehicle Accidents	50
Day/Night	48/50
Weekend	48

Figure 6.1 Registered Motorcycles and
Licensed Motorcyclists
1983-1992



Approximately 44% of motorcycle riders involved in fatal collisions were under the age of 25.

Thirty-three per cent of motorcycle riders in these fatal collisions were impaired by alcohol, a further 10% had been drinking and 12% were unknown.

There is almost an even split of these types of vehicles in fatal collisions between single/multi vehicle, day/night, and week day/weekend.

The most common driver action is speeding/lost control, which accounts for 60% of the actions of motorcyclists in fatal collisions.

6b. school vehicles

Table 6.3 Pupils Transported Daily, Total Accidents and Injury Rate per 100,000 Pupils -
School Years 1987/88 - 1991/92

School Year	Pupils Transported Daily	Total Number of Accidents	Injury Rate Per 100,000 Pupils	
			Fatal	Non-Fatal
1987/88	712,893	852	0.4	30
1988/89	751,153	1,259	0.3	27
1989/90	771,729	1,444	0.1	30
1990/91	789,963	1,315	0.4	32
1991/92	794,941	1,194	0.2	18

Table 6.4 School Vehicle Type by Nature of
Accident 1991/92

School Vehicle Type	Nature of Accident				Total	Five Year Total
	Fatal	Pupil Injury	Non-Pupil Injury	Property Damage	Number of Accidents	(1987/88 1991/92)
School Bus	5	25	171	813	1,014	5,109
School Van	-	10	25	116	151	1,003
Other School Vehicles	-	1	4	24	29	100
Total Accidents	5	36	200	953	1,194	6,212

Table 6.5 Pupil Injury by Accident Event and Vehicle Type 1991/92

School Vehicle Type	Accident Event						Total		Five Year Total	
	Crossing		Within		Other				(1987/88 1991/92)	
	Road	School Vehicle					Killed	Injured	Killed	Injured
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
School Bus	1	9	-	116	-	8	1	133	9	930
School Van	-	1	-	11	-	1	-	13	-	134
Other School Vehicles	-	-	-	1	-	-	-	1	1	27
Total	1	10	-	128	-	9	1	147	10	1,091

6c. trucks

Table 6.6 Class of Truck Accident
1988-1992

Year	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
1988	471	20,720	46,462	67,653
1989	466	19,959	50,085	70,510
1990	393	16,493	45,570	62,456
1991	389	13,843	41,694	55,926
1992	361	13563	43330	57,254
Total	2,080	84,578	227,141	313,799

Table 6.7 Driver Licence Class Required
by Class of Truck Accident 1992

Driver Licence Required	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
G	230	11,237	35,022	46,489
D	38	784	3,064	3,886
A*	93	1,542	5,244	6,879
Total	361	13,563	43,330	57,254

Table 6.8 Driver Licence Class Required -
Accidents, Registered Trucks and
Accident Rate 1992

Driver Licence Required	Accidents	Registered Vehicles	Accident Rate
G	46,489	951,309	4.9
D	3,886	57,332	6.8
A*	6,879	97,541**	7.1
Total	57,254	1,106,182	5.2

* Tractor/trailer combination only.

**Includes vehicles registered under the new SVAR system.

Data for truck/trailer combinations requiring Class "A" driver licence are not reported separately in the Vehicle Registration System.

Table 6.9 Selected Factors Relevant to Fatal
Truck Accidents 1992

Factors	Driver Licence Required		
	Class G	Class D	Class A
Driver Condition in			
Fatal Accidents:			
Alcohol Involved	23.9%	10.5%	2.2%
Driving Properly	41.3%	52.6%	73.1%
Single Vehicle	38.7%	15.8%	21.5%
Vehicle Defect Present*	3.9%	2.6%	-
Urban Area	31.3%	36.8%	12.9%
Daylight	54.8%	84.2%	55.9%

*Excludes unknown category

6d. off-road vehicles

Table 6.10 Accident Location
by Off-Road Vehicle Drivers
Killed and Injured 1988 - 1992

Location	Killed					Injured				
	1988	1989	1990	1991	1992	1988	1989	1990	1991	1992
On-Highway	2	-	-	4	-	42	24	31	34	36
Off-Highway	5	10	3	5	2	159	124	135	139	67
Total	7	10	3	9	2	201	148	166	173	103

Table 6.11 Accident Location by
Off-Road Vehicle Passengers
Killed and Injured 1988 - 1992

Location	Killed				Injured					
	1988	1989	1990	1991	1992	1988	1989	1990	1991	1992
On-Highway	-	-	-	1	-	8	10	10	9	9
Off-Highway	1	-	-	-	2	41	36	43	44	17
Total	1	-	-	1	2	49	46	53	53	26

For the purposes of this publication, off-road vehicles include dune buggies, off-road motorcycles (dirt bikes), and three and four wheeled all-terrain vehicles. Off-road vehicles were first required to be registered on June 1, 1984.

Table 6.12 Registered Off-Road
Vehicles 1988 - 1992

Year	Vehicles Registered
1988	68,634
1989	74,316
1990	80,274
1991	86,259
1992	92,020

Table 6.13 Selected Factors Relevant to
All Off-Road Vehicle
Accidents 1992

Factors	%
Drivers Under 25 Years of Age	55
Alcohol Used	17
Speeding	23
Helmet Not Worn	55
Daytime	72
Two-Wheeled	21
Three-Wheeled	26
Four-Wheeled	53

6e. motorized snow vehicles

Table 6.14 Accident Location by Motorized Snow Vehicle Drivers Killed and Injured - Riding Seasons 1987/88-1991/92

Location	Killed					Injured				
	87/88	88/89	89/90	90/91	91/92	87/88	88/89	89/90	90/91	91/92
On-Highway	4	2	2	5	1	111	63	51	37	61
Off-Highway	13	27	31	24	11	166	246	250	279	195
Total	17	29	33	29	12	277	311	301	316	256
% On-Highway	24	7	6	17	8	40	20	17	12	24

Table 6.15 Accident Location by Motorized Snow Vehicle Passengers Killed and Injured - Riding Seasons 1987/88 - 1991/92

Location	Killed					Injured				
	87/88	88/89	89/90	90/91	91/92	87/88	88/89	89/90	90/91	91/92
On-Highway	-	1	-	1	1	28	21	15	7	29
Off-Highway	5	4	5	7	4	53	84	101	98	97
Total	5	5	5	8	5	81	105	116	105	126

Table 6.16 Registered Motorized Snow Vehicles 1988-1992

Year	Registered Motorized Snow Vehicles 1988-1992
1988	285,744
1989	308,373
1990	328,343
1991	346,932
1992	366,730

All Motorized Snow Vehicle Accidents 1991/92

Factors	%
Unlicensed Operators	10
Rider Error; Speed Too Fast	29
Alcohol Used	16
Surface Condition; Icy or Packed Snow	58

6f.

bicycles

Table 6.18		Bicyclists* Killed and Injured 1988-1992			
Year	Drivers		Passengers		
	Killed	Injured	Killed	Injured	
1988	43	4,293	-	34	
1989	33	4,020	-	139	
1990	29	3,518	-	172	
1991	27	3,797	-	178	
1992	27	3,333	-	168	

*Only accidents involving a bicycle and a motor vehicle or streetcar are required to be reported. These tables do not include bicycle only, bicycle/bicycle or bicycle-pedestrian accidents.

Table 6.19		Age of Bicyclist* Involved in Accidents by Light Condition 1992					
Light	Age Groups						
Condition	0 - 5	6 - 15	16 - 30	31 - 60	61+	UK	Total
Daylight	71	1,139	1,230	520	73	321	3,354
Dawn	-	3	14	7	1	1	26
Dusk	5	48	70	21	1	13	158
Dark	10	73	308	96	7	51	545
Total	86	1,263	1,622	644	82	386	4,083

Table 6.20		Selected Factors Relevant to All Bicycle Accidents 1992	
Factors			%
Driving Properly (Bicyclist)			42
Driving Properly (Motor Vehicle Driver)			48
Intersection Related			64
Going Ahead (Bicyclist)			82
Alcohol Related (Bicyclist)			3
No Apparent Vehicle Defect (Bicycle)			89
Clear Visibility			90
Weekend			19

7

**conviction
and
suspension
data**

Of all motor vehicle related convictions during 1992, almost 92% were under the Ontario Highway Traffic Act, 3% were under the Criminal Code of Canada and 1% were under Municipal By-laws.

Of all Criminal Code of Canada convictions, 85% were alcohol related, 9% were for driving while disqualified, 3% were for dangerous driving and 3% were for fail to remain at accident.

Of the Ontario Highway Traffic Act convictions, 58% were for speeding offences, and 9% were for non-use of seat belts.

Approximately 59% of suspensions for alcohol related offences were to drivers with a previous alcohol offence.



7a. conviction data

Table 7.1 Summary of Motor Vehicle
Related Convictions 1992

Convictions**	Number
Highway Traffic Act	1,037,302
Regulation H.T.A	1,624
Criminal Code of Canada*	33,592
Municipal By-Law	8,901
Motor Vehicle Accident Claim/Compulsory Insurance Act**	44,264
Motorized Snow Vehicles Act	863
Off-Road Vehicle	544
Total	1,127,090

*This figure does not include 311 convictions for young offenders under the Criminal Code.

** Includes manually recorded convictions.

Table 7.2 Motor Vehicle Convictions
Related to the
Highway Traffic Act 1992

Convictions	Number
Equipment	18,699
Administrative*	93,284
Seat Belt (Driver & Passenger)**	84,273
Other Non-Pointable Convictions***	11,304
Speeding (< 16 km/h, non-pointable)	297,006
Pointable Speeding	261,781
Other Pointable Convictions (2 - 4 pt)	165,768
Other Pointable Convictions (5 - 7 pt)	15,136
Driving While Suspended	11,869
Total	959,120

* Non-moving, weight, vehicle registration, licence renewal, etc.

** Failure to wear seat belt convictions registered against passengers over 16 are no longer included.

*** Now includes some out of province convictions.

Table 7.3 Motor Vehicle Convictions
Related to the
Criminal Code 1992*

Convictions	Number
Alcohol Related**	28,573
Criminal Negligence	25
Fail to Remain at Accident	914
Driving While Disqualified	2,987
Dangerous Driving	1,093
Motor Manslaughter	-
Total	33,592

*Does not include 311 convictions for young offenders.

**Includes some out of province convictions.

7b.

suspension
data

Table 7.4 Mandatory Suspensions Related to Criminal Code Convictions Issued 1992

Suspensions	3 Months	6 Months	1 Year	2 Years	3 Years	Total
Criminal Negligence	-	-	11	8	5	24
Fail to Remain	-	-	438	293	171	902
Dangerous Driving	-	-	501	346	568	1,415
Impaired Driving	-	-	5,827	5,511	2,956	14,294
Blood/Alcohol over .08	-	-	5,139	4,943	2,521	12,603
Failure to Provide Breath Sample	-	-	827	777	371	1,975
Failure to Provide Roadside Breath Sample	-	-	-	-	1	1
Drive while Disqualified or Prohibited	-	-	1,881	1,018	74	2,973
Total	-	-	14,624	12,896	6,667	34,187

New federal and provincial laws relating to drinking and driving took effect December 20, 1985. Individuals convicted of offences which occurred prior to that date are not subject to the longer minimum mandatory suspension periods of the new laws.

Previous minimum suspension periods were 3 months for a first conviction, 6 months for the second conviction within five years and 3 years for a third conviction within five years. The current minimum suspension periods are 1 year for a first conviction, 2 years for a second conviction within five years and 3 years for a third conviction within five years.

Table 7.5 Mandatory Suspensions Related to Criminal Code Convictions at Year End 1992**

Suspensions	3 Months	6 Months	1 Year	2 Years	3 Years	Total
Criminal Negligence	2	5	29	53	26	115
Fail to Remain	-	-	505	533	375	1,413
Dangerous Driving	-	-	756	688	476	1,920
Impaired Driving	-	-	6,599	8,401	4,990	19,990
Blood/Alcohol over .08	-	-	5,930	7,072	3,801	16,803
Failure to Provide Breath Sample	-	-	996	1,365	795	3,156
Failure to Provide Roadside Breath Sample	-	-	-	-	-	-
Drive While Disqualified or Prohibited	-	-	4,074	2,871	160	7,105
Total	2	5	18,889	20,983	10,623	50,502

** This table reflects the suspensions in effect at year end. The total exceeds the number of suspensions issued in

1992 due to the fact that some suspensions are in effect for more than one year.

Table 7.6 **Demerit Point Suspensions by Driver Age 1992**

Driver Age	Demerit Point Suspensions		
		Non-Probationary First Accumulation	Non-Probationary Second Accumulation
	Probationary		
16	426	-	-
17	1,747	-	-
18	2,135	5	-
19	1,262	46	-
20 - 24	3,275	558	40
25 - 34	2,933	624	62
35 - 44	815	185	21
45 - 54	183	68	12
55 - 64	43	27	1
65 - 74	15	4	-
75+	6	1	-
Total	12,840	1,518	136

Newly licensed drivers are covered by the probationary licence system until they have successfully completed two one-year periods of suspension free driving. Probationary drivers are suspended for 30 days after accumulating 6 or

more demerit points. Non-probationary drivers are suspended for 30 days on the first accumulation of 15 demerit points and are suspended for 6 months on the second accumulation of 15 points within 2 years.

8**appendix**

8a.**glossary of terms**

8a. glossary

Ability Impaired Alcohol:

Driving while one's ability is impaired by alcohol or driving with a blood alcohol concentration exceeding 80 milligrams in 100 millilitres of blood.

Alcohol Involved:

This category includes both drivers reported as ability impaired by alcohol and drivers reported as "had been drinking".

Class L Driver's Licence:

The learner's licence that allows the holder to drive any motor vehicle that requires a class G driver's licence (e.g. an automobile) on the road, providing that the holder of a class G licence or any other higher licence class (A,B,C,D,E and F) is occupying the seat beside him/her for the purpose of giving instruction.

Class R Driver's Licence:

The learner's licence that allows the holder to operate a motorcycle for the purposes of training. Class R licensed motorcyclists are prohibited from nighttime riding, carrying passengers and travelling on high speed highways with exceptions of Highways 11 and 17.

Conviction:

Awarded when a person pleads guilty to, or is found guilty of, an offence related to a motor vehicle under any Act of the Ontario Legislature or its accompanying regulations, under the Parliament of Canada or any accompanying order, or under any municipal by-law.

Driver:

Unless specified otherwise, any person, whether licensed or not, considered to be in care and control of a vehicle at the time of an accident.

Fatal Accident:

A motor vehicle accident in which at least one person sustains bodily injuries resulting in death.*

Had Been Drinking:

Driving after having drunk an amount of alcohol not considered sufficient to be legally impaired or with a measured blood alcohol count of greater than zero but less than 80 milligrams.

Highway:

A common and public highway, street, avenue etc., any part of which is intended for public use or used by the general public for the passage of vehicles and including the area between the property lines.

Kilometres Travelled:

Vehicle fleet mileage is estimated on the basis of taxed gasoline and motor fuel sales. Total litres sold are converted to kilometres travelled based on a conversion factor of 22.0 kilometres per gallon.

Major Injury:

A non-fatal injury severe enough to require that the injured person be admitted to hospital, even if for observation only.

Minimal Injury:

A non-fatal injury, including minor abrasions and bruises, which does not necessitate the injured person going to a hospital.

Minor Injury:

A non-fatal injury requiring medical treatment at a hospital emergency room, but not requiring hospitalization of the involved person.

Motor Vehicle Accident:

Any incident in which bodily injury or damage to property is sustained as a result of the movement of a motor vehicle, or of its load while a motor vehicle is in motion.

Off-Highway Accidents:

An off-highway accident involving any of the motorized vehicles which are covered by legislation under the Highway Traffic Act, the Motorized Snow Vehicles Act, and the Off-Road Vehicles Act.

On-Highway Accidents:

A motor vehicle accident which occurs on the highway, between the property lines.

Pedestrian:

Any person not riding in or on a vehicle involved in a motor vehicle accident.

Personal Injury Accident:

A motor vehicle accident in which at least one person involved sustains bodily injuries not resulting in death.

Property Damage Accident:

A motor vehicle accident in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property** including damage to the motor vehicle or its load.

Reportable Accident:

Any fatal or injury accident, or any accident in which there is any damage to public property or damage to private property in excess of a monetary value prescribed in law.**

Suspension:

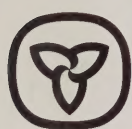
Withdrawal of a driver's privilege to operate a motor vehicle for a prescribed period of time.

*Prior to January 1, 1982, fatal accident statistics included deaths attributed to accidental injuries up to one year after the accident. Since that date, only deaths from injuries within thirty days of the accident have been included.

** The minimum reportable level for property damage only accident rose from \$200 to \$400 on January 1, 1978 and rose again to \$700 on January 1, 1985.

Road Safety

**It starts
with you**



Ontario

Lacking 1993

